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# TEXTILE ORGANON

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## Highlights


- Capacity Utilization Review . . . begins on page 4.
- Annual Shipment Summary. . . see page 11.
- Worldwide Net Available Supply. . . begins on page 12.


**SHIPMENTS:**

In the final month of the year, total man-made fiber shipments were ahead 3.6% over both the previous month and same month in the previous year. For the whole year, the shipments were ahead 6.0% over the previous period.

December shipments of cellulosic yarn were 18.9 million pounds, an increase of 20.4% over November shipments. Acrylic+modacrylic shipments at 51.0 million pounds were up 17.2% over the previous month. However, both fiber types were down for the year to date.

For the whole year, the two biggest percentage gainers were industrial nylon, up 12.0% over the previous year, and polyester staple up 11.6%. Two staple items were the big gainers on a weight basis. Polyester staple shipments were ahead 245.8 million pounds for the year and nylon staple increased 77.3 million pounds. The total shipments of all man-made fiber for the year grew by 503.9 million pounds to reach 8919.0 million pounds.

**TABLE 1:**
**TOTAL U.S. MAN-MADE FIBER SHIPMENTS**
**MILLION POUNDS & *PERCENT CHANGE***

| ITEM | 1987 DEC | 1987 NOV | % CHG 11/87-12/87 | 1986 DEC | % CHG 12/86-12/87 | YEAR TO DATE 1987 | YEAR TO DATE 1986 | % CHG YTD 1986-1987 |
|---|---|---|---|---|---|---|---|---|
| ***CELLULOSIC*** | | | | | | | | |
| YARN | 18.9 | 15.7 | *+20.4* | 18.2 | *+3.8* | 191.7 | 212.3 | *-9.7* |
| RAYON STAPLE | 36.6 | 32.8 | *+11.6* | 35.4 | *+3.4* | 415.5 | 403.8 | *+2.9* |
| **TOTAL CELLULOSIC** | **55.5** | **48.5** | ***+14.4*** | **53.6** | ***+3.5*** | **607.2** | **616.1** | ***-1.4*** |
| ***NONCELLULOSIC*** | | | | | | | | |
| **YARN+MONOFILAMENTS** | | | | | | | | |
| NYLON - INDUSTRIAL | 30.4 | 30.3 | *+0.3* | 30.9 | *-1.6* | 373.4 | 333.4 | *+12.0* |
| - CARPET | 71.0 | 65.3 | *+8.7* | 70.7 | *+0.4* | 940.6 | 898.5 | *+4.7* |
| - TEXTILE[a] | 31.0 | 31.2 | *-0.6* | 28.5 | *+8.8* | 378.7 | 360.5 | *+5.0* |
| POLYESTER - INDUSTRIAL | 28.8 | 27.1 | *+6.3* | 27.8 | *+3.6* | 338.8 | 313.9 | *+7.9* |
| - TEXTILE [a] | 67.5 | 72.4 | *-6.8* | 72.4 | *-6.8* | 841.6 | 855.8 | *-1.7* |
| OLEFIN | 100.2 | 94.7 | *+5.8* | 97.0 | *+3.3* | 1127.7 | 1059.7 | *+6.4* |
| **TOTAL YARN** | **328.9** | **321.0** | ***+2.5*** | **327.3** | ***+0.5*** | **4000.8** | **3821.8** | ***+4.7*** |
| **STAPLE+TOW+FIBERFILL** | | | | | | | | |
| NYLON | 66.1 | 71.4 | *-7.4* | 76.7 | *-13.8* | 985.5 | 908.2 | *+8.5* |
| ACRYLIC+MODACRYLIC | 51.0 | 43.5 | *+17.2* | 46.2 | *+10.4* | 593.4 | 614.1 | *-3.4* |
| POLYESTER | 209.2 | 199.4 | *+4.9* | 183.8 | *+13.8* | 2369.2 | 2123.4 | *+11.6* |
| OLEFIN+VINYON[b] | 29.9 | 30.8 | *-2.9* | 27.1 | *+10.3* | 362.9 | 331.5 | *+9.5* |
| **TOTAL STAPLE** | **356.2** | **345.1** | ***+3.2*** | **333.8** | ***+6.7*** | **4311.0** | **3977.2** | ***+8.4*** |
| **TOTAL NONCELLULOSIC** | **685.1** | **666.1** | ***+2.9*** | **661.1** | ***+3.6*** | **8311.8** | **7799.0** | ***+6.6*** |
| **TOTAL MAN-MADE FIBER** | **740.6** | **714.6** | ***+3.6*** | **714.7** | ***+3.6*** | **8919.0** | **8415.1** | ***+6.0*** |

a. Includes low denier industrial yarn.
b. 1987 data exclude Vinyon.

# Textile Organon

A Monthly Review

JANUARY 1988


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# DATAGRAM

## U.S. SHIPMENTS OF MAN-MADE FIBER INCREASED

In 1987, total shipments of man-made fiber increased 6.0% or 503.9 million pounds more than in 1986. In the three years since 1984, the total yearly shipments increased by 864.3 million pounds. The three largest quantity gainers since 1984 were olefin yarn up 385.6 million pounds, polyester staple up 176.8 million pounds and nylon staple up 154.2 million pounds. Please note that a portion of the reported growth in olefin fiber is due to the inclusion of new olefin producers in the data starting in 1985. (See Table 8)

## U.S. PRODUCTION OF MAN-MADE FIBER INCREASED

In 1987, total U.S. production of noncellulosic and cellulosic fibers increased 5.4% to 8,903 million pounds, or 456 million pounds more than 1986 production. Of the 1987 production, 93.2% was non-cellulosic and 6.8% was cellulosic. (See Table 4)

## U.S. CAPACITY UTILIZATION RATE REACHES 88.5%

Total U.S. producing capacity for man made fiber increased 1.4% in 1987, to reach 10,059 million pounds. The 5.4% increase in production therefore increased the total capacity utilization rate to 88.5% . The capacity utilization rate for noncellluosic fibers was 88.7% and for cellulosic fibers 85.3%. (See Table 2)

## 1986 WORLDWIDE MILL CONSUMPTION OF FIBERS AT 71.9 BILLION POUNDS

In selected countries worldwide, mill consumption in 1986 reached 34.0 billion pounds of man-made fiber, 34.1 billion pounds of cotton and 3.8 billion pounds of wool, for a total of 71.9 billion pounds of fiber. The U.S. was the leading consumer of man-made fiber, and used 20% of the total. The U.S.S.R. and China, PRC together accounted for 39% of the cotton mill consumption, and West Europe accounted for 29% of the wool. (See Table 10)

# CAPACITY UTILIZATION REVIEW

***Editor's Note** : The capacity utilization rates are based on production and capacity sizes. Thus, a rate can be raised by an increase in production, a decrease in capacity or a combination of these two.*

*All major fiber categories, except cellulosic yarn, have increased their capacity utilization rates in 1987, compared with 1977. In the case of polyester staple+tow, the increase was due to production growing faster than capacity. In the case of nylon and polyester textile yarns, the increases were caused by capacity reductions greater than production reductions.*

*The total capacity for all noncellulosic fibers is virtually the same in 1987 as in 1977, but increases in production have raised the total capacity utilization rate to 88.7%. Total cellulosic fibers have a capacity utilization rate of 85.3%, because capacity in the ten year period was reduced more than the reduction in production.*

This report presents data in six tables and four graphs: Review of Production, Producing Capacity & Capacity Utilization; Summary of Annual Production (1977-1987); Production of Noncellulosic & Cellulosic Fibers as a Precentage of Total Man-Made Fiber Production; Producing Capacity of Noncellulosic & Cellulosic Fibers as a Percentage of Total Man-Made Fiber Capacity; Summary of Producing Capacities (1977-1988); and Summary of Capacity Utilization Rates (1977-1987). Also included are graphs showing the 1977-1987 trends in the capacities and production of Nylon Carpet Yarn, Polyester Textile Yarn and Polyester Staple+Tow.

The Review of Production, Producing Capacity & Capacity Utilization at the bottom of this page, ties the three major components of this report - production, producing capacity and capacity utilization - into one table for easy reference. The page opposite depicts this summary graphically.

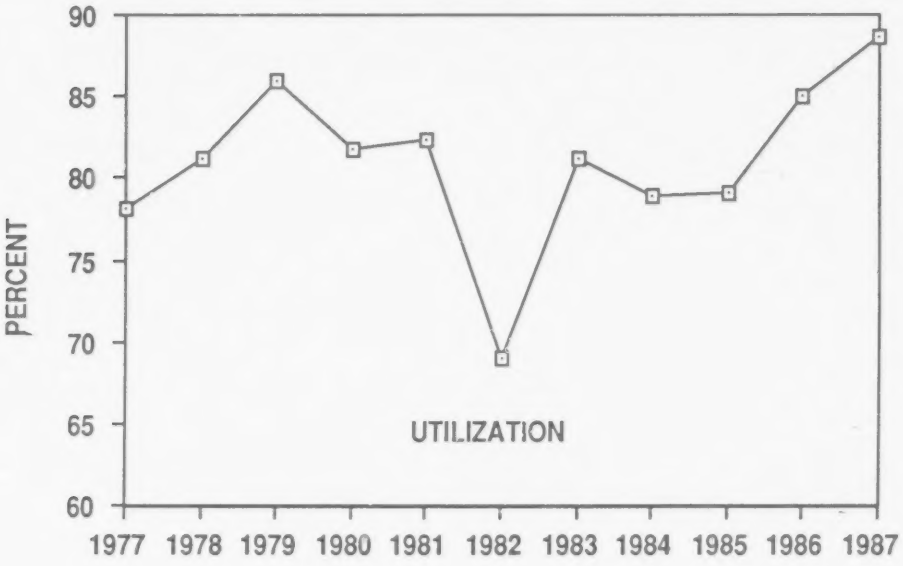
For this report, Textile Economics Bureau **November** capacity survey data are used as the annual capacity figures. The tables on pages 6 & 7 show the production data for 1977-1987, the tables on pages 7 & 8 show the producing capacities, and the table on page 9 shows the capacity utilization rates for the various individual and generic fiber types.

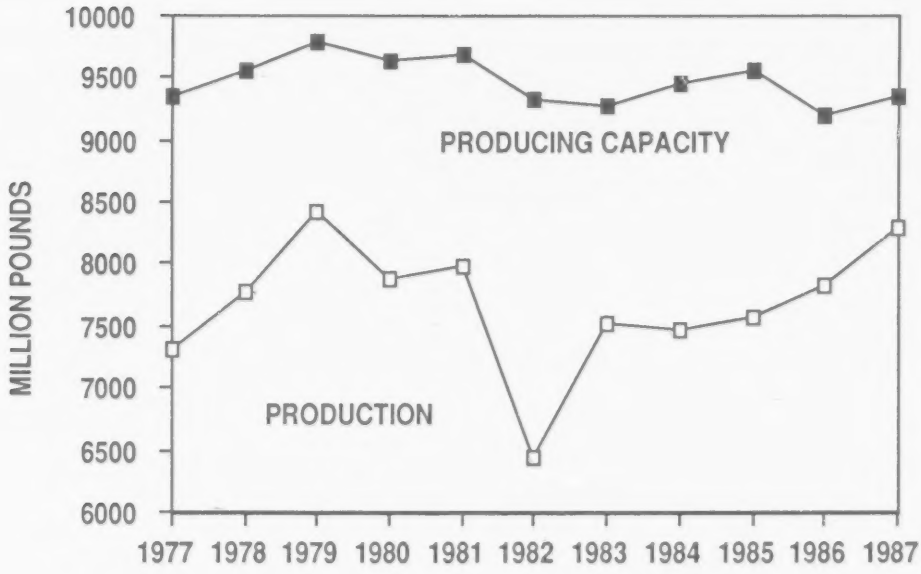
## TABLE 2:
## REVIEW OF PRODUCTION, PRODUCING CAPACITY & CAPACITY UTILIZATION[a]
**MILLION POUNDS & *PERCENT***

| FIBER TYPE | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***NONCELLULOSIC*** | | | | | | | | | | | |
| PRODUCTION | 7312 | 7768 | 8418 | 7874 | 7982 | 6442 | 7534 | 7473 | 7564 | 7828 | 8298 |
| CAPACITY | 9352 | 9555 | 9784 | 9627 | 9696 | 9334 | 9274 | 9460 | 9558 | 9207 | 9350 |
| UTILIZATION (%) | *78.2* | *81.3* | *86.0* | *81.8* | *82.3* | *69.0* | *81.2* | *79.0* | *79.1* | *85.0* | *88.7* |
| ***CELLULOSIC*** | | | | | | | | | | | |
| PRODUCTION | 888 | 905 | 930 | 806 | 770 | 584 | 640 | 628 | 558 | 619 | 605 |
| CAPACITY | 1063 | 1086 | 1109 | 909 | 898 | 895 | 845 | 845 | 784 | 709 | 709 |
| UTILIZATION (%) | *83.5* | *83.3* | *83.9* | *88.7* | *85.7* | *65.3* | *75.7* | *74.3* | *71.2* | *87.3* | *85.3* |
| ***TOTAL MAN-MADE FIBERS*** | | | | | | | | | | | |
| PRODUCTION | 8200 | 8673 | 9348 | 8680 | 8752 | 7026 | 8174 | 8101 | 8122 | 8447 | 8903 |
| CAPACITY | 10415 | 10641 | 10893 | 10536 | 10594 | 10229 | 10119 | 10305 | 10342 | 9916 | 10059 |
| UTILIZATION (%) | *78.7* | *81.5* | *85.8* | *82.4* | *82.6* | *68.7* | *80.8* | *78.6* | *78.5* | *85.2* | *88.5* |

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

**GRAPH 1:**
**NONCELLULOSIC FIBER PRODUCTION, CAPACITY & CAPACITY UTILIZATION**



# TABLE 3:
# SUMMARY OF ANNUAL PRODUCTION
## MILLION POUNDS

| YEAR | CELLULOSIC FIBERS | | | | | | TOTAL CELL. |
|---|---|---|---|---|---|---|---|
| | FILAMENT YARN+MONOFIL | | | STAPLE+TOW | | | |
| | RAYON | ACETATE | TOTAL | RAYON | ACETATE | TOTAL | |
| 1977 | 71 | 282 | 353 | 527 | 8 | 535 | 888 |
| 1978 | 62 | 301 | 363 | 535 | 7 | 542 | 905 |
| 1979 | 57 | 317 | 374 | 549 | 7 | 556 | 930 |
| 1980 | 47 | 309 | 356 | 443 | 7 | 450 | 806 |
| 1981 | 48 | 257 | 305 | 461 | 4 | 465 | 770 |
| 1982 | 33 | 195 | 228 | 355 | 1 | 356 | 584 |
| 1983 | 36 | 228 | 264 | 375 | 1 | 376 | 640 |
| 1984 | 41 | 198 | 239 | 389 | + | 389 | 628 |
| 1985 | b | b | 205 | b | b | 353 | 558 |
| 1986 | b | b | 215 | b | b | 404 | 619 |
| 1987 | b | b | 191 | b | b | 414 | 605 |

| YEAR | NONCELLULOSIC FIBERS | | | | | | | | | | | | | | TOTAL NON-CELL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | YARN+MONOFILAMENTS | | | | | | | | | STAPLE+TOW | | | | | |
| | NYLON+ARAMID [a] | | | | POLYESTER | | | OLEFIN | TOTAL YARN | NYLON+ ARAMID [a] | POLY-ESTER | ACRYLIC+ MODACR | OLEFIN+ VINYON [c] | TOTAL STAPLE | |
| | IND | TEX | CARP | TOTAL | IND | TEX | TOTAL | | | | | | | | |
| 1977 | 401 | 457 | 654 | 1512 | 360 | 1232 | 1592 | 554 | 3658 | 814 | 2050 | 709 | 81 | 3654 | 7312 |
| 1978 | 438 | 503 | 713 | 1654 | 355 | 1209 | 1564 | 597 | 3815 | 896 | 2236 | 726 | 95 | 3953 | 7768 |
| 1979 | 499 | 528 | 755 | 1782 | 373 | 1342 | 1715 | 639 | 4136 | 939 | 2462 | 761 | 120 | 4282 | 8418 |
| 1980 | 437 | 466 | 728 | 1631 | 286 | 1176 | 1462 | 632 | 3725 | 727 | 2527 | 779 | 116 | 4149 | 7874 |
| 1981 | 410 | 461 | 710 | 1581 | 309 | 1257 | 1566 | 643 | 3790 | 752 | 2607 | 691 | 142 | 4192 | 7982 |
| 1982 | 315 | 354 | 573 | 1242 | 292 | 921 | 1213 | 585 | 3040 | 685 | 1955 | 624 | 138 | 3402 | 6442 |
| 1983 | 315 | 415 | 762 | 1492 | 299 | 1060 | 1359 | 716 | 3567 | 926 | 2184 | 671 | 186 | 3967 | 7534 |
| 1984 | 379 | 394 | 804 | 1577 | 316 | 884 | 1200 | 748 | 3525 | 835 | 2192 | 671 | 250 | 3948 | 7473 |
| 1985 | 343 | 353 | 819 | 1515 | 294 | 1027 | 1321 | 954 | 3790 | 828 | 2020 | 631 | 295 | 3774 | 7564 |
| 1986 | 339 | 360 | 907 | 1606 | 319 | 854 | 1173 | 1058 | 3837 | 908 | 2132 | 616 | 335 | 3991 | 7828 |
| 1987 | 364 | 381 | 951 | 1696 | 337 | 842 | 1179 | 1118 | 3993 | 992 | 2362 | 591 | 360 | 4305 | 8298 |

a. 1983-1987 exclude Aramid.
b. Detail withheld due to company disclosure.
c. Data for Vinyon not included in 1987.

Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments.

Acetate includes diacetate and triacetate. The acetate staple+tow data do not include tow for cigarette filtration.

Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

## TABLE 4:
## PRODUCTION OF NONCELLULOSIC & CELLULOSIC FIBERS[a] AS A PERCENTAGE OF TOTAL MAN-MADE FIBER PRODUCTION
MILLION POUNDS & *PERCENT*

| YEAR | NON-CELLULOSIC | % | CELLULOSIC | % | TOTAL MAN-MADE FIBER | % |
|---|---|---|---|---|---|---|
| 1977 | 7312 | *89.2* | 888 | *10.8* | 8200 | *100.0* |
| 1978 | 7768 | *89.6* | 905 | *10.4* | 8673 | *100.0* |
| 1979 | 8418 | *90.1* | 930 | *9.9* | 9348 | *100.0* |
| 1980 | 7874 | *90.7* | 806 | *9.3* | 8680 | *100.0* |
| 1981 | 7982 | *91.2* | 770 | *8.8* | 8752 | *100.0* |
| 1982 | 6442 | *91.7* | 584 | *8.3* | 7026 | *100.0* |
| 1983 | 7534 | *92.2* | 640 | *7.8* | 8174 | *100.0* |
| 1984 | 7473 | *92.2* | 628 | *7.8* | 8101 | *100.0* |
| 1985 | 7564 | *93.1* | 558 | *6.9* | 8122 | *100.0* |
| 1986 | 7828 | *92.7* | 619 | *7.3* | 8447 | *100.0* |
| 1987 | 8298 | *93.2* | 605 | *6.8* | 8903 | *100.0* |

a. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

## TABLE 5:
## PRODUCING CAPACITY OF NONCELLULOSIC & CELLULOSIC FIBERS AS A PERCENTAGE OF TOTAL MAN-MADE FIBER CAPACITY
MILLION POUNDS *& PERCENT*

| YEAR | NON-CELLULOSIC | % | CELLULOSIC | % | TOTAL MAN-MADE FIBER | % |
|---|---|---|---|---|---|---|
| 1977 | 9352 | *89.8* | 1063 | *10.2* | 10415 | *100.0* |
| 1978 | 9555 | *89.8* | 1085 | *10.2* | 10641 | *100.0* |
| 1979 | 9784 | *89.8* | 1109 | *10.2* | 10893 | *100.0* |
| 1980 | 9627 | *91.4* | 909 | *8.6* | 10536 | *100.0* |
| 1981 | 9696 | *91.5* | 898 | *8.5* | 10594 | *100.0* |
| 1982 | 9334 | *91.3* | 895 | *8.7* | 10229 | *100.0* |
| 1983 | 9274 | *91.6* | 845 | *8.4* | 10119 | *100.0* |
| 1984 | 9460 | *91.8* | 845 | *8.2* | 10305 | *100.0* |
| 1985 | 9558 | *92.4* | 784 | *7.6* | 10342 | *100.0* |
| 1986 | 9207 | *92.8* | 709 | *7.2* | 9916 | *100.0* |
| 1987 | 9350 | *93.0* | 709 | *7.0* | 10059 | *100.0* |

# TABLE 6:
# SUMMARY OF PRODUCING CAPACITIES
## MILLION POUNDS

| YEAR[a] | CELLULOSIC FIBERS: FILAMENT YARN+MONOFIL: RAYON | ACETATE | TOTAL | STAPLE+TOW: RAYON | ACETATE | TOTAL | TOTAL CELL. |
|---|---|---|---|---|---|---|---|
| 1977 | 85 | 315 | 400 | 655 | 8 | 663 | 1063 |
| 1978 | 83 | 330 | 413 | 665 | 8 | 673 | 1086 |
| 1979 | 75 | 355 | 430 | 671 | 8 | 679 | 1109 |
| 1980 | 63 | 324 | 387 | 514 | 8 | 522 | 909 |
| 1981 | 52 | 332 | 384 | 509 | 5 | 514 | 898 |
| 1982 | 63 | 318 | 381 | 510 | 4 | 514 | 895 |
| 1983 | 63 | 268 | 331 | 510 | 4 | 514 | 845 |
| 1984 | 63 | 268 | 331 | 510 | 4 | 514 | 845 |
| 1985 | b | b | 269 | 510 | 5 | 515 | 784 |
| 1986 | b | b | 244 | b | b | 465 | 709 |
| 1987 | b | b | 244 | b | b | 465 | 709 |

| YEAR[a] | NONCELLULOSIC FIBERS: YARN+MONOFILAMENTS: NYLON+ARAMID[c]: IND | TEX | CARP | TOTAL | POLYESTER: IND | TEX | TOTAL | OLEFIN | TOTAL YARN | STAPLE+TOW: NYLON+ ARAMID[c] | POLY-ESTER | ACRYLIC+ MODACR | OLEFIN+ VINYON[d] | TOTAL STAPLE | TOTAL NON-CELL. | GLASS FIBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1977 | 523 | 558 | 829 | 1910 | 443 | 1698 | 2141 | 907 | 4958 | 939 | 2470 | 869 | 116 | 4394 | 9352 | 1002 |
| 1978 | 510 | 565 | 908 | 1983 | 443 | 1643 | 2086 | 915 | 4984 | 1023 | 2554 | 865 | 129 | 4571 | 9555 | 1118 |
| 1979 | 513 | 579 | 950 | 2042 | 443 | 1699 | 2142 | 922 | 5106 | 1020 | 2673 | 839 | 146 | 4678 | 9784 | 1305 |
| 1980 | 515 | 551 | 910 | 1976 | 400 | 1637 | 2037 | 900 | 4913 | 991 | 2759 | 830 | 134 | 4714 | 9627 | 1473 |
| 1981 | 514 | 553 | 893 | 1960 | 316 | 1481 | 1797 | 989 | 4746 | 1010 | 2839 | 835 | 266 | 4950 | 9696 | 1561 |
| 1982 | 474 | 513 | 925 | 1912 | 338 | 1265 | 1603 | 1038 | 4553 | 978 | 2700 | 832 | 271 | 4781 | 9334 | 1718 |
| 1983 | 440 | 494 | 907 | 1841 | 337 | 1170 | 1507 | 1099 | 4447 | 1017 | 2704 | 826 | 280 | 4827 | 9274 | 1618 |
| 1984 | 437 | 470 | 926 | 1833 | 342 | 1162 | 1504 | 1142 | 4479 | 1054 | 2784 | 807 | 336 | 4981 | 9460 | 1743 |
| 1985 | 437 | 466 | 965 | 1868 | 374 | 1097 | 1471 | 1329 | 4668 | 1067 | 2785 | 631 | 407 | 4890 | 9558 | 1769 |
| 1986 | 435 | 398 | 964 | 1797 | 401 | 1021 | 1422 | 1326 | 4545 | 1077 | 2491 | 637 | 457 | 4662 | 9207 | 1763 |
| 1987 | 418 | 404 | 1005 | 1827 | 399 | 929 | 1328 | 1402 | 4557 | 1137 | 2522 | 652 | 482 | 4793 | 9350 | 1642 |

a. **All annual capacity data are as of November of that year.**
b. Detail withheld due to disclosure.
c. 1983-1987 exclude Aramid.
d. Data for Vinyon not included in 1987.

The data do not include acetate tow for cigarette filtration.

**IND** means industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.

**CARP** means bulked continuous filament yarn for carpets.

**TEX** means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbon, etc. Olefin monofil includes the circular and rectangular ribbon cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

## TABLE 7:
## SUMMARY OF CAPACITY UTILIZATION RATES
### PERCENT (%)

| YEAR | CELLULOSIC FIBERS: FILAMENT YARN+MONOFIL: RAYON | ACETATE | TOTAL | STAPLE+TOW: RAYON | ACETATE | TOTAL | TOTAL CELL. |
|---|---|---|---|---|---|---|---|
| 1977 | 83.5 | 89.5 | 88.3 | 80.5 | 100.0 | 80.7 | 83.5 |
| 1978 | 74.7 | 91.2 | 87.9 | 80.5 | 87.5 | 80.5 | 83.3 |
| 1979 | 76.0 | 89.3 | 87.0 | 81.8 | 87.5 | 81.9 | 83.9 |
| 1980 | 74.6 | 95.4 | 92.0 | 86.2 | 87.5 | 86.2 | 88.7 |
| 1981 | 92.3 | 77.4 | 79.4 | 90.6 | 80.0 | 90.5 | 85.7 |
| 1982 | 52.4 | 61.3 | 59.8 | 69.6 | 25.0 | 69.3 | 65.3 |
| 1983 | 57.1 | 85.1 | 79.8 | 73.5 | 25.0 | 73.2 | 75.7 |
| 1984 | 65.1 | 73.9 | 72.2 | b | b | 75.7 | 74.3 |
| 1985 | b | b | 76.2 | b | b | 68.5 | 71.2 |
| 1986 | b | b | 88.1 | b | b | 86.9 | 87.3 |
| 1987 | b | b | 78.3 | b | b | 89.0 | 85.3 |

| YEAR | NONCELLULOSIC FIBERS [c]: YARN+MONOFILAMENTS: NYLON+ARAMID [a]: IND | TEX | CARP | TOTAL | POLYESTER: IND | TEX | TOTAL | OLEFIN | TOTAL YARN | STAPLE+TOW: NYLON+ ARAMID [a] | POLY-ESTER | ACRYLIC+ MODACR | OLEFIN+ VINYON [d] | TOTAL STAPLE | TOTAL NON-CELL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1977 | 76.7 | 81.9 | 78.9 | 79.2 | 81.3 | 72.6 | 74.4 | 61.1 | 73.8 | 86.7 | 83.0 | 81.6 | 69.8 | 83.2 | 78.2 |
| 1978 | 85.9 | 89.0 | 78.5 | 83.4 | 80.1 | 73.6 | 75.0 | 65.2 | 76.5 | 87.6 | 87.5 | 83.9 | 73.6 | 86.5 | 81.3 |
| 1979 | 97.3 | 91.2 | 79.5 | 87.3 | 84.2 | 79.0 | 80.1 | 69.3 | 81.0 | 92.1 | 92.1 | 90.7 | 82.2 | 91.5 | 86.0 |
| 1980 | 84.9 | 84.6 | 80.0 | 82.5 | 71.5 | 71.8 | 71.8 | 70.2 | 75.8 | 73.4 | 91.6 | 93.9 | 86.6 | 88.0 | 81.8 |
| 1981 | 79.8 | 83.4 | 79.5 | 80.7 | 97.8 | 84.9 | 87.1 | 65.0 | 79.9 | 74.5 | 91.8 | 82.8 | 53.4 | 84.7 | 82.3 |
| 1982 | 66.5 | 69.0 | 61.9 | 65.0 | 86.4 | 72.8 | 75.7 | 56.4 | 66.8 | 70.0 | 72.4 | 75.0 | 50.9 | 71.2 | 69.0 |
| 1983 | 71.6 | 84.0 | 84.0 | 81.0 | 88.7 | 90.6 | 90.2 | 65.2 | 80.2 | 91.1 | 80.8 | 81.2 | 66.4 | 82.2 | 81.2 |
| 1984 | 86.7 | 83.8 | 86.8 | 86.0 | 92.4 | 76.1 | 79.8 | 65.5 | 78.7 | 79.2 | 78.7 | 83.1 | 74.4 | 79.3 | 79.0 |
| 1985 | 78.5 | 75.8 | 84.9 | 81.1 | 78.6 | 93.6 | 89.8 | 71.8 | 81.2 | 77.6 | 72.5 | 100.0 | 72.5 | 77.2 | 79.1 |
| 1986 | 77.9 | 90.5 | 94.1 | 89.4 | 79.6 | 83.6 | 82.5 | 79.8 | 84.4 | 84.3 | 85.6 | 96.7 | 73.3 | 85.6 | 85.0 |
| 1987 | 87.1 | 94.3 | 94.6 | 92.8 | 84.5 | 90.6 | 88.8 | 79.7 | 87.6 | 87.2 | 93.7 | 90.6 | 74.7 | 89.8 | 88.7 |

All percentages are tabulated using the tables on pages 6 and 8.

**a.** 1983-1987 exclude Aramid.

**b.** Detail withheld due to company disclosure.

**c.** Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

**d.** Data for Vinyon not included in 1987.

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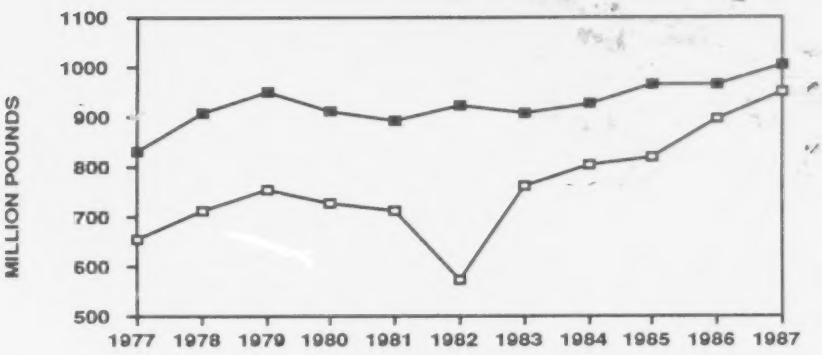
***NOVEMBER 1987 DIRECTORY OF U.S. MAN-MADE FIBER PRODUCERS CORRECTION :***

Hanover Mills, Inc. on page 252, Universal Polymer Products Corporation on page 253 and Guilford Mills, Gainesville Division on page 252 of the ***November Textile Organon*** should all be revised to read:

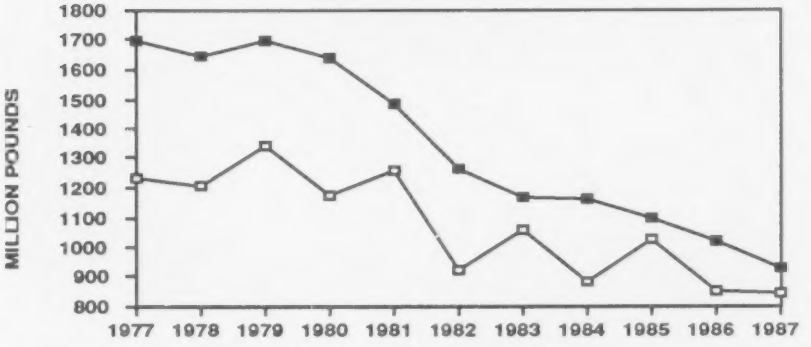
HANOVER FIBERS DIVISION,
GUILFORD MILLS, INC.
Executive Office: 4925 West Market Street,
Greensboro, NC 27402
Regional Sales Office: 200 Dickens Road,
P.O. Box 788, Fuquay-Varina, N.C.
27526

| | |
|---|---|
| Nylon 6 | Gainesville, GA (monofil) |
| Polyester | Fuquay-Varina, N.C. (yarn+monofil) |

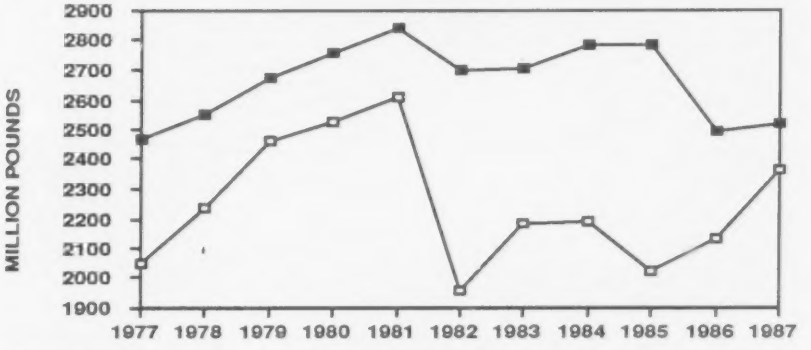
## GRAPH 2:
## NYLON CARPET YARN CAPACITY & PRODUCTION
MILLION POUNDS



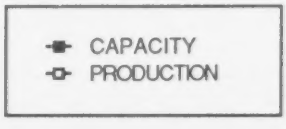

## GRAPH 3:
## POLYESTER TEXTILE YARN CAPACITY & PRODUCTION [a]
MILLION POUNDS



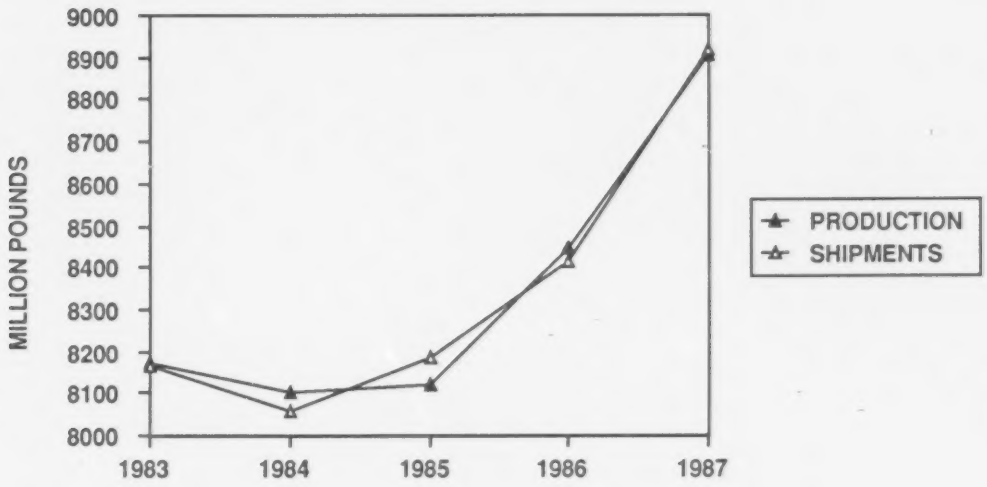

## GRAPH 4:
## POLYESTER STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS




a. Includes low denier industrial.



## GRAPH 5:
## TOTAL MAN-MADE FIBER PRODUCTION & SHIPMENTS
MILLION POUNDS




## TABLE 8:
## TOTAL MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

| ITEM | 1987 | 1986 | % CHG. 86-87 | 1985 | % CHG. 85-87 | 1984 | % CHG. 84-87 |
|---|---|---|---|---|---|---|---|
| ***CELLULOSIC*** | | | | | | | |
| YARN | 191.7 | 212.3 | *-9.7* | 210.1 | *-8.8* | 236.5 | *-18.9* |
| RAYON STAPLE | 415.5 | 403.8 | *+2.9* | 358.7 | *+15.8* | 384.0 | *+8.2* |
| **TOTAL CELLULOSIC** | **607.2** | **616.1** | ***-1.4*** | **568.8** | ***+6.8*** | **620.5** | ***-2.1*** |
| ***NONCELLULOSIC*** | | | | | | | |
| **YARN+MONOFILAMENTS** | | | | | | | |
| NYLON - INDUSTRIAL | 373.4 | 333.4 | *+12.0* | 345.1 | *+8.2* | 375.1 | *-0.5* |
| - CARPET | 940.6 | 898.5 | *+4.7* | 835.4 | *+12.6* | 794.9 | *+18.3* |
| - TEXTILE [a] | 378.7 | 360.5 | *+5.0* | 355.3 | *+6.6* | 387.4 | *-2.2* |
| POLYESTER - INDUSTRIAL | 338.8 | 313.9 | *+7.9* | 292.1 | *+16.0* | 313.1 | *+8.2* |
| - TEXTILE [a] | 841.6 | 855.8 | *-1.7* | 1020.4 | *-17.5* | 885.0 | *-4.9* |
| OLEFIN | 1127.7 | 1059.7 | *+6.4* | 951.1 | *+18.6* | 742.1 | *+52.0* |
| **TOTAL YARN** | **4000.8** | **3821.8** | ***+4.7*** | **3799.4** | ***+5.3*** | **3497.6** | ***+14.4*** |
| **STAPLE+TOW+FIBERFILL** | | | | | | | |
| NYLON | 985.5 | 908.2 | *+8.5* | 843.6 | *+16.8* | 831.3 | *+18.5* |
| ACRYLIC+MODACRYLIC | 593.4 | 614.1 | *-3.4* | 643.8 | *-7.8* | 666.2 | *-10.9* |
| POLYESTER | 2369.2 | 2123.4 | *+11.6* | 2038.6 | *+16.2* | 2192.4 | *+8.1* |
| OLEFIN+VINYON [b] | 362.9 | 331.5 | *+9.5* | 288.2 | *+25.9* | 246.7 | *+47.1* |
| **TOTAL STAPLE** | **4311.0** | **3977.2** | ***+8.4*** | **3814.2** | ***+13.0*** | **3936.6** | ***+9.5*** |
| **TOTAL NONCELLULOSIC** | **8311.8** | **7799.0** | ***+6.6*** | **7613.6** | ***+9.2*** | **7434.2** | ***+11.8*** |
| **TOTAL MAN-MADE FIBER** | **8919.0** | **8415.1** | ***+6.0*** | **8182.4** | ***+9.0*** | **8054.7** | ***+10.7*** |

a. Includes low denier industrial yarn.
b. 1987 data exclude Vinyon.

## TABLE 9:
## 1986 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & TEXTILE GLASS

MILLION POUNDS

| COUNTRY & AREA | CELLULOSIC | | | | | | | | NONCELLULOSIC | | | | | | | | TOTAL MAN-MADE FIBERS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | YARN | | | | STAPLE+TOW | | | | YARN | | | | STAPLE+TOW | | | | | | | | | |
| | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | CELL SPUN | NC SPUN | NET AVAIL |
| ***WESTERN EUROPE*** | | | | | | | | | | | | | | | | | | | | | | |
| AUSTRIA | NA | 9.1 | 0.1 | NA | NA | 8.3 | 152.2 | NA | 0 | 45.0 | 1.9 | 43.1 | 33.1 | 48.2 | 39.5 | 41.8 | 304.3 | 110.6 | 193.7 | -37.3 | -13.5 | 170.4 |
| BENELUX | NA | 28.9 | 84.0 | NA | NA | 101.3 | 9.9 | NA | 160.9 | 304.6 | 248.0 | 217.5 | 75.0 | 244.2 | 126.1 | 193.1 | 324.1 | 679.0 | 468.0 | +29.9 | +55.9 | 620.9 |
| FINLAND | NA | 1.6 | + | NA | NA | 5.7 | 114.4 | NA | 1.1 | 24.9 | 0.3 | 25.7 | 0 | 30.8 | 0.2 | 30.6 | 122.4 | 63.0 | 114.9 | +1.3 | +7.9 | 79.7 |
| FRANCE | NA | 51.6 | 21.2 | NA | NA | 52.9 | 27.1 | NA | 134.9 | 186.3 | 118.1 | 203.1 | 233.7 | 261.7 | 153.0 | 342.4 | 414.9 | 552.5 | 319.4 | +14.1 | +13.4 | 675.5 |
| GERMANY, FED. REP. | NA | 56.2 | 77.3 | NA | NA | 99.4 | 80.5 | NA | 765.0 | 194.4 | 568.9 | 390.5 | 879.6 | 298.3 | 732.6 | 445.3 | 1911.4 | 648.3 | 1459.3 | +0.4 | -18.0 | 1082.8 |
| GREECE | NA | 1.3 | 11.6 | NA | NA | 14.8 | 0.1 | NA | 19.8 | 14.5 | 11.4 | 22.9 | 22.0 | 49.9 | 10.7 | 61.2 | 59.2 | 80.5 | 33.8 | -0.9 | +5.3 | 110.3 |
| IRELAND | 0 | 1.6 | 0.1 | 1.5 | 0 | 7.3 | 0.1 | 7.2 | 28.7 | 20.5 | 38.7 | 10.5 | 134.5 | 12.3 | 80.6 | 66.2 | 163.2 | 41.7 | 119.5 | +2.5 | +3.0 | 90.9 |
| ITALY/MALTA | NA | 58.2 | 14.0 | NA | NA | 103.1 | 3.8 | NA | 381.4 | 156.2 | 253.0 | 284.6 | 873.0 | 361.9 | 586.3 | 648.6 | 1320.5 | 679.4 | 857.1 | +1.4 | -110.8 | 1033.4 |
| NORWAY | NA | 0.3 | + | NA | 0 | 5.7 | 0.2 | 5.5 | 2.2 | 10.9 | 1.9 | 11.2 | 0 | 9.5 | + | 9.5 | 2.2 | 26.4 | 2.1 | +0.5 | +2.7 | 29.7 |
| PORTUGAL | NA | 5.2 | 0.7 | NA | NA | 22.1 | + | NA | 0 | 48.8 | 3.3 | 45.5 | 121.3 | 25.0 | 9.9 | 136.4 | 122.8 | 101.1 | 13.9 | -0.7 | -13.3 | 196.0 |
| SPAIN | NA | 16.0 | 5.1 | NA | NA | 34.5 | 23.3 | NA | 183.0 | 56.6 | 29.3 | 210.3 | 410.1 | 145.2 | 133.0 | 422.3 | 672.5 | 252.3 | 190.7 | -0.6 | -47.1 | 686.4 |
| SWEDEN | NA | 3.4 | 0.6 | NA | NA | 8.1 | 47.7 | NA | 0 | 27.8 | 1.0 | 26.8 | 0 | 29.1 | 0.3 | 28.8 | 48.7 | 68.4 | 49.6 | +1.0 | +8.0 | 76.5 |
| SWITZERLAND | 0 | 4.7 | 1.1 | 3.6 | 0 | 17.1 | 0.1 | 17.0 | 149.9 | 20.7 | 158.1 | 12.5 | 59.5 | 32.1 | 73.8 | 17.8 | 209.4 | 74.6 | 233.1 | -1.5 | -2.4 | 47.0 |
| TURKEY | NA | 1.4 | 0.1 | NA | NA | 8.1 | + | NA | 132.3 | 42.5 | 15.9 | 158.9 | 372.6 | 50.0 | 69.3 | 353.3 | 522.5 | 102.0 | 85.3 | +0.3 | -20.3 | 519.7 |
| UNITED KINGDOM | NA | 25.2 | 37.0 | NA | NA | 65.2 | 97.2 | NA | 191.8 | 257.7 | 143.5 | 306.0 | 286.6 | 218.9 | 179.6 | 325.9 | 606.3 | 567.0 | 457.3 | +4.8 | +97.7 | 818.5 |
| TOTAL WESTERN EUROPE | 418.0 | 264.7 | 252.9 | 429.8 | 734.4 | 553.6 | 556.6 | 731.4 | 2151.0 | 1411.4 | 1593.3 | 1969.1 | 3501.0 | 1817.1 | 2194.9 | 3123.2 | 6804.4 | 4046.8 | 4597.7 | +15.7 | -31.5 | 6237.7 |
| ***EASTERN EUROPE*** | | | | | | | | | | | | | | | | | | | | | | |
| ALBANIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 0.3 | 0 | 1.2 | 0 | 0.3 | 0 | 0.3 | 0.9 | 0.6 | 0 | + | +0.2 | 1.7 |
| BULGARIA | 9.3 | + | 0.1 | 9.2 | 83.8 | 4.2 | 8.7 | 79.3 | 88.2 | 3.5 | 0.1 | 91.6 | 105.8 | 9.3 | 0.9 | 114.2 | 287.1 | 17.0 | 9.8 | + | +0.3 | 294.6 |
| CZECHOSLOVAKIA | 46.5 | 0.1 | 1.8 | 44.8 | 89.3 | 0.2 | 4.2 | 85.3 | 154.3 | 5.2 | 11.6 | 147.9 | 112.4 | 7.4 | 3.9 | 115.9 | 402.5 | 12.9 | 21.5 | -0.1 | +2.8 | 396.6 |
| GERMANY, DEM. REP. | 78.5 | 1.4 | 0.4 | 79.5 | 201.7 | 5.3 | 25.3 | 181.7 | 169.8 | 4.4 | 2.9 | 171.3 | 203.9 | 11.1 | 11.3 | 203.7 | 653.9 | 22.2 | 39.9 | +3.3 | +12.7 | 652.2 |
| HUNGARY | 0 | 1.8 | 0.1 | 1.7 | 15.4 | 2.0 | 4.1 | 13.3 | 21.4 | 20.6 | 1.4 | 40.6 | 38.6 | 31.0 | 0.4 | 69.2 | 75.4 | 55.4 | 6.0 | +0.4 | +2.1 | 127.3 |
| POLAND | 45.6 | + | 0 | 45.6 | 138.9 | 3.6 | 0.2 | 142.3 | 211.9 | 9.6 | 1.8 | 219.7 | 173.1 | 12.0 | 0.5 | 184.6 | 569.5 | 25.2 | 2.5 | + | +3.4 | 595.6 |
| ROMANIA | 19.8 | + | 1.7 | 18.1 | 121.3 | 0.6 | 6.2 | 115.7 | 132.3 | 0.3 | 7.2 | 125.4 | 332.9 | 0 | 39.9 | 293.0 | 606.3 | 0.9 | 55.0 | 0 | -5.5 | 546.7 |
| U.S.S.R. | 696.7 | 4.9 | 0.1 | 701.5 | 771.6 | 23.2 | + | 794.8 | 866.0 | 51.8 | 0.1 | 917.7 | 780.4 | 47.1 | 3.1 | 824.4 | 3114.7 | 127.0 | 3.3 | + | +7.0 | 3245.4 |
| YUGOSLAVIA | 33.3 | 0.3 | 4.3 | 29.3 | 123.5 | 1.1 | 20.9 | 103.7 | 103.6 | 21.3 | 8.3 | 116.6 | 176.4 | 28.7 | 39.9 | 165.2 | 436.8 | 51.4 | 73.4 | -6.3 | -2.3 | 406.2 |
| TOTAL EASTERN EUROPE | 929.7 | 8.5 | 8.5 | 929.7 | 1545.5 | 40.2 | 69.6 | 1516.1 | 1748.4 | 117.0 | 33.4 | 1832.0 | 1923.5 | 146.9 | 99.9 | 1970.5 | 6147.1 | 312.6 | 211.4 | -2.7 | +20.7 | 6266.3 |
| TOTAL EUROPE | 1347.7 | 273.2 | 261.4 | 1359.5 | 2279.9 | 593.8 | 626.2 | 2247.5 | 3899.4 | 1528.4 | 1626.7 | 3801.1 | 5424.5 | 1964.0 | 2294.8 | 5093.7 | 12951.5 | 4359.4 | 4809.1 | +13.0 | -10.8 | 12504.0 |
| U.S.A. | 214.9 | 17.0 | 20.2 | 211.7 | 404.1 | 17.4 | 32.6 | 388.9 | 2778.2 | 121.8 | 200.9 | 2699.1 | 3656.5 | 183.0 | 239.4 | 3600.1 | 7053.7 | 339.2 | 493.1 | +1.5 | +6.6 | 6907.9 |
| ***OTHER AMERICAS*** | | | | | | | | | | | | | | | | | | | | | | |
| ARGENTINA | 4.4 | 0.2 | 0 | 4.6 | 7.9 | 0.3 | 0 | 8.2 | 67.7 | 0.9 | 0.3 | 68.3 | 53.8 | 2.3 | 0 | 56.1 | 133.8 | 3.7 | 0.3 | 0 | 0 | 137.2 |
| BOLIVIA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0.4 | 0 | 2.1 | 0 | 2.1 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| BRAZIL | 37.0 | 4.6 | 8.9 | 32.7 | 74.1 | 0.6 | 14.0 | 60.7 | 302.7 | 5.8 | 3.4 | 305.1 | 225.3 | 2.5 | 11.7 | 216.1 | 639.1 | 13.5 | 38.0 | 0 | -10.9 | 603.7 |
| CANADA | 19.4 | 28.3 | 21.0 | 26.7 | 64.2 | 5.2 | 44.9 | 24.5 | 166.0 | 129.1 | 43.3 | 251.8 | 131.0 | 100.9 | 19.3 | 212.6 | 380.6 | 263.5 | 128.5 | +18.0 | +15.2 | 548.8 |
| CHILE | 2.9 | 0.1 | 0.3 | 2.7 | 8.6 | 2.2 | 0 | 10.8 | 8.2 | 0.9 | 0 | 9.1 | 5.1 | 25.6 | 0.2 | 30.5 | 24.8 | 28.8 | 0.5 | 0 | 0 | 53.1 |
| COLOMBIA | 4.0 | 0.2 | 0 | 4.2 | 0 | 4.4 | 0 | 4.4 | 85.3 | 1.4 | 0.3 | 86.4 | 28.7 | 17.0 | 0 | 45.7 | 118.0 | 23.0 | 0.3 | 0 | 0 | 140.7 |
| COSTA RICA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.3 | 6.5 | 8.8 | 7.0 | 0 | 1.7 | 0.1 | 1.6 | 9.3 | 8.2 | 8.9 | 0 | 0 | 8.6 |
| CUBA | 5.5 | 0.2 | 0.1 | 5.6 | 7.7 | + | 0 | 7.7 | 0 | 1.2 | 0 | 1.2 | 0 | + | 0.2 | 0 | 13.2 | 1.4 | 0.3 | 0 | 0 | 14.3 |
| ECUADOR | 0 | 4.6 | 0 | 4.6 | 0 | 0.9 | 0 | 0.9 | 11.0 | 13.2 | 0 | 24.2 | 0 | 8.7 | 0 | 8.7 | 11.0 | 27.4 | 0 | 0 | 0 | 38.4 |
| MEXICO | 27.1 | 0.4 | 2.7 | 24.8 | 0 | 10.8 | 5.2 | 5.6 | 337.7 | 3.9 | 83.3 | 258.3 | 325.8 | 15.3 | 93.2 | 247.9 | 690.6 | 30.4 | 184.4 | 0 | -14.2 | 522.4 |
| PERU | 3.7 | + | 0 | 3.7 | 0 | 0.7 | 0 | 0.7 | 29.8 | 4.3 | 0 | 34.1 | 75.2 | 0.8 | 0 | 76.0 | 108.7 | 5.8 | 0 | 0 | -0.7 | 113.8 |
| URUGUAY | 2.2 | 0 | + | 2.2 | 0 | 5.5 | 0 | 5.5 | 4.9 | 0.3 | 0 | 5.2 | 9.7 | 3.5 | 3.2 | 10.0 | 16.8 | 9.3 | 3.2 | 0 | 0 | 22.9 |
| VENZUELA | 4.9 | 0.1 | 0 | 5.0 | 0 | 15.1 | 0 | 15.1 | 25.6 | 3.0 | 0 | 28.6 | 14.3 | 6.3 | 0 | 20.6 | 44.8 | 24.5 | 0 | 0 | 0 | 69.3 |
| TOTAL OTHER AMERICAS | 111.1 | 38.7 | 33.0 | 116.8 | 162.5 | 45.7 | 64.1 | 144.1 | 1048.2 | 170.9 | 139.4 | 1079.7 | 868.9 | 186.7 | 127.9 | 927.7 | 2190.7 | 442.0 | 364.4 | +18.0 | -10.6 | 2275.7 |

## TABLE 9:
## 1986 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & TEXTILE GLASS *(CONTINUED)*

MILLION POUNDS

| | CELLULOSIC | | | | | | | | NONCELLULOSIC | | | | | | | | TOTAL MAN-MADE FIBERS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | YARN | | | | STAPLE+TOW | | | | YARN | | | | STAPLE+TOW | | | | | | | CELL | NC | NET |
| COUNTRY & AREA | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | AVAIL | PROD | IMP | EXP | SPUN | SPUN | AVAIL |
| JAPAN | 235.0 | 2.0 | 94.3 | 142.7 | 560.4 | 0.4 | 197.4 | 363.4 | 1340.8 | 53.3 | 231.1 | 1163.0 | 1659.6 | 37.5 | 655.8 | 1041.3 | 3795.8 | 93.2 | 1178.6 | -7.0 | -122.4 | 2581.0 |
| CHINA, PRC | 191.8 | 37.1 | + | 228.9 | 286.6 | 86.5 | 0 | 373.1 | 352.7 | 97.6 | 0.2 | 450.1 | 1479.3 | 448.3 | 0.2 | 1927.4 | 2310.4 | 669.5 | 0.4 | -13.8 | -4.9 | 2960.8 |
| *OTHER ASIA* | | | | | | | | | | | | | | | | | | | | | | |
| BANGLADESH | 6.0 | 0 | 0 | 6.0 | 2.4 | 2.6 | 0 | 5.0 | 0.9 | 0.8 | 0 | 1.7 | 0 | 3.7 | 0 | 3.7 | 9.3 | 7.1 | 0 | 0 | 0 | 16.4 |
| INDIA | 109.8 | 6.5 | 1.8 | 114.5 | 190.3 | 10.1 | 0 | 200.4 | 304.2 | 13.7 | 0 | 317.9 | 169.3 | 24.8 | 0.8 | 193.3 | 773.6 | 55.1 | 2.6 | 0 | 0 | 826.1 |
| INDONESIA | 0 | 21.1 | 0 | 21.1 | 86.6 | 2.8 | 0 | 89.4 | 180.1 | 29.3 | 3.9 | 205.5 | 187.4 | 62.2 | 0 | 249.6 | 454.1 | 115.4 | 3.9 | -4.1 | +1.8 | 563.3 |
| KOREA, REP. OF | 30.6 | 28.2 | 6.8 | 52.0 | 0 | 72.6 | 0.1 | 72.5 | 961.4 | 37.2 | 179.2 | 819.4 | 938.9 | 90.9 | 123.9 | 905.9 | 1930.9 | 228.9 | 310.0 | +3.9 | -121.8 | 1731.9 |
| MALAYSIA | 0 | 0.3 | + | 0.3 | 0 | 4.9 | + | 4.9 | 0 | 1.1 | 0.1 | 1.0 | 86.0 | 19.1 | 5.5 | 99.6 | 86.0 | 25.4 | 5.6 | -0.2 | -9.3 | 96.3 |
| PAKISTAN | 7.1 | 4.1 | 0.1 | 11.1 | 0 | 42.7 | + | 42.7 | 40.1 | 16.7 | 0 | 56.8 | 53.8 | 34.4 | 0.1 | 88.1 | 101.0 | 97.9 | 0.2 | -0.1 | 0 | 198.6 |
| PHILIPPINES | 0 | 0.5 | 0 | 0.5 | 0 | 39.6 | 0 | 39.6 | 46.3 | 14.7 | 0 | 61.0 | 33.1 | 52.0 | 0 | 85.1 | 79.4 | 106.8 | 0 | +0.1 | +6.8 | 193.1 |
| SRI LANKA | 0 | 0.1 | 0 | 0.1 | 0 | 3.2 | 0 | 3.2 | 2.9 | 0.8 | 0 | 3.7 | 0 | 2.0 | 0.1 | 1.9 | 2.9 | 6.1 | 0.1 | 0 | 0 | 8.9 |
| TAIWAN | 6.2 | 3.9 | 3.9 | 6.2 | 258.2 | 13.4 | 4.8 | 266.8 | 1335.1 | 50.2 | 450.4 | 934.9 | 1381.2 | 142.6 | 426.4 | 1097.4 | 2980.7 | 210.1 | 885.5 | -6.1 | -171.3 | 2127.9 |
| THAILAND | 0 | 1.0 | 0 | 1.0 | 41.9 | 1.7 | 0 | 43.6 | 88.2 | 2.6 | 0.9 | 89.9 | 125.7 | 14.2 | 0.1 | 139.8 | 255.8 | 19.5 | 1.0 | -2.1 | -2.3 | 269.9 |
| TOTAL OTHER ASIA | 159.7 | 65.7 | 12.6 | 212.8 | 579.4 | 193.6 | 4.9 | 768.1 | 2959.2 | 167.1 | 634.5 | 2491.8 | 2975.4 | 445.9 | 556.9 | 2864.4 | 6673.7 | 872.3 | 1208.9 | -8.6 | -296.1 | 6032.4 |
| *MIDDLE EAST, AFRICA & OCEANIA* | | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA/N.Z. | 0 | 2.6 | 0 | 2.6 | 0 | 4.9 | 0 | 4.9 | 30.9 | 30.8 | 0 | 61.7 | 2.2 | 24.8 | 1.1 | 25.9 | 33.1 | 63.1 | 1.1 | 0 | 0 | 95.1 |
| EGYPT | 15.4 | 4.8 | 0 | 20.2 | 10.4 | 0 | 0 | 10.4 | 12.8 | 2.6 | 0.6 | 14.8 | 65.3 | 3.7 | 19.4 | 49.6 | 103.9 | 11.1 | 20.0 | +5.2 | -0.6 | 99.6 |
| IRAN | 0 | 3.4 | 0 | 3.4 | 0 | 3.4 | 0 | 3.4 | 29.8 | 7.8 | 0 | 37.6 | 68.3 | 12.8 | 0 | 81.1 | 98.1 | 27.4 | 0 | 0 | +47.2 | 172.7 |
| IRAQ | 6.6 | 2.1 | 0 | 8.7 | 12.1 | 2.2 | 0 | 14.3 | 0 | 2.9 | 0 | 2.9 | 0 | 9.9 | 0 | 9.9 | 18.7 | 17.1 | 0 | +1.0 | 0 | 36.8 |
| ISRAEL | 0 | 0.6 | 0.4 | 0.2 | 0 | 0.4 | 0.1 | 0.3 | 24.0 | 20.4 | 12.7 | 31.7 | 16.1 | 17.4 | 11.0 | 22.5 | 40.1 | 38.8 | 24.2 | +0.7 | +6.6 | 62.0 |
| KENYA | 0 | 1.5 | 0 | 1.5 | 0 | 2.1 | 0 | 2.1 | 11.2 | 0.3 | + | 11.5 | 2.2 | 7.5 | + | 9.7 | 13.4 | 11.4 | + | +0.2 | +0.3 | 25.3 |
| NIGERIA | 0 | 0.5 | 0 | 0.5 | 0 | 3.4 | 0 | 3.4 | 7.1 | 4.3 | 0 | 11.4 | 6.8 | 3.6 | 0 | 10.4 | 13.9 | 11.8 | 0 | +0.5 | 0 | 26.2 |
| SOUTH AFRICA | 0 | 0.4 | 0 | 0.4 | 0 | 8.6 | 0 | 8.6 | 115.3 | 9.7 | 15.2 | 109.8 | 70.5 | 66.3 | 1.2 | 135.6 | 185.8 | 85.0 | 16.4 | +0.1 | -3.7 | 250.8 |
| TANZANIA | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0.1 | 6.6 | 0.2 | 0 | 6.8 | 0 | 1.0 | 0 | 1.0 | 6.6 | 1.3 | 0 | 0 | 0 | 7.9 |
| TOTAL M.E., A. & O. | 22.0 | 15.9 | 0.4 | 37.5 | 22.5 | 25.1 | 0.1 | 47.5 | 237.7 | 79.0 | 28.5 | 288.2 | 231.4 | 147.0 | 32.7 | 345.7 | 513.6 | 267.0 | 61.7 | +7.7 | +49.8 | 776.4 |
| TOTAL ALL COUNTRIES | 2282.2 | 449.6 | 421.9 | 2309.9 | 4295.4 | 962.5 | 925.3 | 4332.6 | 12616.2 | 2218.1 | 2861.3 | 11973.0 | 16295.6 | 3412.4 | 3907.7 | 15800.3 | 35489.4 | 7042.6 | 8116.2 | +10.8 | -388.4 | 34038.2 |

Explanation of this table can be found below.
**NA** Not Available.
\+ Less than 50 thousand pounds.

## NET AVAILABLE SUPPLY

The 1986 by-country production, import, export and net available or retained supply of four categories of man-made fiber are presented in millions of pounds in Table 9. Regarding the data in Table 9, acetate cigarette tow has been excluded, while imports and exports of tire cord and tire cord fabric have been included.

**"Net Available Supply"** is defined as production plus imports less exports plus the balance of trade in spun yarn. Sometimes this is also called **"apparent consumption"**. **"Yarn"** is defined to include tire cord and tire cord fabric, filament yarn and monofilaments. **"Staple"** is defined to include tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

Except for spun yarns, the imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric, dresses, hosiery, etc.) are not included in the data.

The spun yarn data are shown under the **"Total Man-Made Fiber"** columns in Table 9; space does not permit the presentation of the import and export data separately. These data may include some quantities of blending fibers other than man-made fiber.

A net import quantity is shown in the **"spun"** column as (+); in other words, an addition to a country's net available supply, while conversely a net export, is (-). For example, the net 1986 cellulosic yarn figure for Japan is shown as -7.0, which consists of imports of 0.7 (+0.7) and exports 7.7 (-7.7).

## TABLE 10:
## 1986 MILL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL IN SELECTED COUNTRIES
### MILLION POUNDS

| COUNTRY | MAN-MADE FIBER[a] | COTTON[b] | WOOL[c] | TOTAL |
|---|---|---|---|---|
| ***WESTERN EUROPE*** | | | | |
| AUSTRIA | 170.4 | 44.1 | 7.3 | 221.8 |
| BELGIUM/NETHERLANDS | 620.9 | 116.8 | 71.8 | 809.5 |
| FINLAND | 79.7 | 22.0 | 1.0 | 102.7 |
| FRANCE | 675.5 | 321.9 | 227.5 | 1224.9 |
| GERMANY, FED. REP. | 1082.8 | 451.9 | 93.4 | 1628.1 |
| GREECE | 110.3 | 359.3 | 23.5 | 493.1 |
| IRELAND | 90.9 | 50.7 | 7.2 | 148.8 |
| ITALY/MALTA | 1033.4 | 564.4 | 282.1 | 1879.9 |
| NORWAY | 29.7 | 4.4 | 3.8 | 37.9 |
| PORTUGAL | 196.0 | 363.8 | 20.9 | 580.7 |
| SPAIN | 686.4 | 246.9 | 58.4 | 991.7 |
| SWEDEN | 76.5 | 13.2 | 2.6 | 92.3 |
| SWITZERLAND | 47.0 | 134.5 | 6.4 | 187.9 |
| TURKEY | 519.7 | 1003.1 | 88.0 | 1610.8 |
| UNITED KINGDOM | 818.5 | 99.2 | 214.3 | 1132.0 |
| **TOTAL WESTERN EUROPE** | **6237.7** | **3796.2** | **1108.2** | **11142.1** |
| ***EASTERN EUROPE*** | | | | |
| ALBANIA | 1.7 | 19.8 | d | 21.5 |
| BULGARIA | 294.6 | 205.0 | 32.1 | 531.7 |
| CZECHOSLOVAKIA | 396.6 | 266.8 | 39.7 | 703.1 |
| GERMANY, DEM. REP. | 652.2 | 222.7 | 40.7 | 915.6 |
| HUNGARY | 127.3 | 136.7 | 11.2 | 275.2 |
| POLAND | 595.6 | 348.3 | 45.8 | 989.7 |
| ROMANIA | 546.7 | 264.6 | 53.9 | 865.2 |
| U.S.S.R. | 3245.4 | 4607.6 | 709.7 | 8562.7 |
| YUGOSLAVIA | 406.2 | 286.6 | 42.5 | 735.3 |
| **TOTAL EASTERN EUROPE** | **6266.3** | **6358.1** | **975.6** | **13600.0** |
| **TOTAL EUROPE** | **12504.0** | **10154.3** | **2083.8** | **24742.1** |
| **U.S.A.** | **6907.9** | **3066.6** | **145.7** | **10120.2** |
| ***OTHER AMERICAS*** | | | | |
| ARGENTINA | 137.2 | 257.9 | 76.4 | 471.5 |
| BOLIVIA | 2.5 | 24.3 | d | 26.8 |
| BRAZIL | 603.7 | 1344.8 | 31.5 | 1980.0 |
| CANADA | 548.8 | 119.0 | 11.6 | 679.4 |
| CHILE | 53.1 | 24.3 | 11.5 | 88.9 |
| COLUMBIA | 140.7 | 130.1 | 7.1 | 277.9 |
| COSTA RICA | 8.6 | 2.2 | d | 10.8 |
| CUBA | 14.3 | 97.0 | d | 111.3 |
| ECUADOR | 38.4 | 28.7 | d | 67.1 |
| MEXICO | 522.4 | 324.1 | 13.0 | 859.5 |
| PERU | 113.8 | 125.7 | 11.9 | 251.4 |
| URUGUAY | 22.9 | 11.0 | 88.9 | 122.8 |
| VENEZUELA | 69.3 | 88.2 | d | 157.5 |
| **TOTAL OTHER AMERICAS** | **2275.7** | **2577.3** | **251.9** | **5104.9** |

## TABLE 10:
## 1986 MILL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL IN SELECTED COUNTRIES *(CONTINUED)*

**MILLION POUNDS**

| COUNTRY | MAN-MADE FIBER[a] | COTTON[b] | WOOL[c] | TOTAL |
|---|---|---|---|---|
| **JAPAN** | **2581.0** | **1510.2** | **248.5** | **4339.7** |
| **CHINA, PRC** | **2960.8** | **8545.0** | **572.2** | **12078.0** |
| ***OTHER ASIA*** | | | | |
| BANGLADESH | 16.4 | 92.6 | d | 109.0 |
| INDIA | 826.1 | 3434.8 | 84.3 | 4345.2 |
| INDONESIA | 563.3 | 359.3 | d | 922.6 |
| KOREA, REP. OF | 1731.9 | 798.1 | 74.1 | 2604.1 |
| MALAYSIA | 96.3 | 97.0 | d | 193.3 |
| PAKISTAN | 198.6 | 1201.5 | 46.3 | 1446.4 |
| PHILIPPINES | 193.1 | 52.9 | d | 246.0 |
| SRI LANKA | 8.9 | 19.8 | d | 28.7 |
| TAIWAN | 2127.9 | 727.5 | 51.6 | 2907.0 |
| THAILAND | 269.9 | 385.8 | d | 655.7 |
| **TOTAL OTHER ASIA** | **6032.4** | **7169.3** | **256.3** | **13458.0** |
| ***MIDDLE EAST, AFRICA & OCEANIA*** | | | | |
| AUSTRALIA/NEW ZEALAND | 95.1 | 46.3 | 130.0 | 271.4 |
| EGYPT | 99.6 | 615.1 | 12.6 | 727.3 |
| IRAN | 172.7 | 154.3 | d | 327.0 |
| IRAQ | 36.8 | 57.3 | d | 94.1 |
| ISRAEL | 62.0 | 50.7 | 6.8 | 119.5 |
| KENYA | 25.3 | 17.6 | d | 42.9 |
| NIGERIA | 26.2 | 4.4 | d | 30.6 |
| SOUTH AFRICA | 250.8 | 147.7 | 66.8 | 465.3 |
| TANZANIA | 7.9 | 28.7 | d | 36.6 |
| **TOTAL M.E., A. & O.** | **776.4** | **1122.1** | **216.2** | **2114.7** |
| **TOTAL ALL COUNTRIES** | **34038.2** | **34144.8** | **3774.6** | **71957.6** |

a. Man-made fiber data are from Table 9, pages 12&13, this issue. The data show the man-made net available supply, which approximates mill consumptions.

b. **Source**: *International Cotton Advisory Committee.* Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31, 1986.

c. **Source:** *Commonwealth Secretariat.* Wool refers to virgin wool, clean basis.

d. Represents minimal quantity, with exact amount not reported.

# TABLE 11:
# U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
## THOUSAND POUNDS

| ITEM | COMMODITY NUMBER AS OF 1/1/87 | 1987 JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR TO DATE 1987 | 1986 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***CELLULOSIC FIBERS*** | | | | | | | | | | | | | | | |
| YARN - SINGLES | | | | | | | | | | | | | | | |
| TEXTURED | 310.0106 & .0206 | 29 | 139 | 0 | 45 | 57 | 20 | 0 | 0 | 0 | 15 | 0 | | 305 | 518 |
| OTHER | 310.0130 & .0230 a | 1237 | 691 | 891 | 1000 | 729 | 607 | 704 | 1026 | 969 | 1279 | 1007 | | 10140 | 13340 |
| MONOFILAMENTS | 309.0310 & .0610 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | + | 0 | 0 | 0 | | 5 | 20 |
| STRIPS, $1/LB & UNDER | 309.2000* | 1 | 0 | 0 | 0 | 0 | 27 | 12 | 80 | 29 | 49 | 10 | | 208 | 756 |
| **SUBTOTAL ABOVE** | | **1267** | **835** | **891** | **1045** | **786** | **654** | **716** | **1106** | **998** | **1343** | **1017** | | **10658** | **14634** |
| STAPLE | 309.4320 & .4325 | 867 | 1402 | 1569 | 1336 | 1072 | 1397 | 542 | 1116 | 968 | 895 | 1108 | | 12272 | 15580 |
| GROUPED FILAMENTS | 309.3010 & .3310 | 118 | 22 | 91 | 42 | 17 | 0 | 62 | 235 | 118 | 70 | 18 | | 793 | 916 |
| **SUBTOTAL ABOVE** | | **985** | **1424** | **1660** | **1378** | **1089** | **1397** | **604** | **1351** | **1086** | **965** | **1126** | | **13065** | **16496** |
| **WASTE, ADVANCED&NOT ADVANCED** | 309.6615 & .7510 | **0** | **0** | **0** | **7** | **0** | **21** | **0** | **0** | **0** | **0** | **30** | | **58** | **121** |
| ***NONCELLULOSIC FIBERS*** | | | | | | | | | | | | | | | |
| YARN - SINGLES | | | | | | | | | | | | | | | |
| TEXTURED - NYLON | | | | | | | | | | | | | | | |
| LESS THAN 450 DENIER | 310.0107 & .0207 | 142 | 163 | 113 | 123 | 147 | 150 | 188 | 228 | 170 | 243 | 227 | | 1894 | 2564 |
| 450 DENIER AND OVER | 310.0108 & .0208 | 2592 | 2933 | 3169 | 3131 | 1822 | 1660 | 1917 | 1752 | 2810 | 2121 | 1779 | | 25686 | 31627 |
| - POLYESTER | 310.0110 & .0210 | 1000 | 2243 | 1670 | 1399 | 1016 | 650 | 1165 | 1062 | 1102 | 1306 | 1338 | | 13951 | 12201 |
| - OTHER | 310.0114 & .0214 | 1876 | 2010 | 1396 | 1300 | 1785 | 1867 | 1595 | 3246 | 1980 | 2170 | 2026 | | 21251 | 18489 |
| OTHER - NYLON | 310.0149 & .0249 | 2008 | 2121 | 2350 | 2348 | 1695 | 1694 | 2086 | 1757 | 2033 | 2030 | 1626 | | 21748 | 20656 |
| - POLYESTER | 310.0150 & .0250 | 1918 | 1327 | 2088 | 2006 | 1590 | 1438 | 1693 | 1191 | 1329 | 1731 | 1514 | | 17825 | 20930 |
| - OTHER | 310.0170 & .0270 b | 445 | 486 | 610 | 680 | 713 | 358 | 725 | 622 | 443 | 523 | 550 | | 6155 | 4680 |
| MONOFILAMENTS | 309.0200 & .0330 c | 272 | 281 | 265 | 263 | 354 | 297 | 329 | 310 | 336 | 461 | 315 | | 3483 | 2482 |
| STRIPS, OVER $1/LB | 309.2100 & .2500* | 199 | 196 | 235 | 244 | 169 | 161 | 263 | 223 | 211 | 298 | 130 | | 2329 | 1407 |
| **SUBTOTAL ABOVE** | | **10452** | **11760** | **11896** | **11494** | **9291** | **8275** | **9961** | **10391** | **10414** | **10883** | **9505** | | **114322** | **115036** |
| STAPLE - NYLON | 309.4331 & .4351 | 5346 | 4106 | 5357 | 3521 | 2137 | 3037 | 1984 | 3374 | 3202 | 3621 | 1485 | | 37170 | 47801 |
| - POLYESTER | 309.4336 & .4361 | 5335 | 5030 | 5122 | 4833 | 6596 | 5980 | 6805 | 7910 | 8667 | 5973 | 4341 | | 66592 | 36020 |
| - ACRYLIC | 309.4366 | 1216 | 839 | 1202 | 1285 | 1073 | 1724 | 1521 | 1617 | 1516 | 1204 | 1335 | | 14532 | 16294 |
| - OLEFIN | 309.4371 | 2 | 153 | 42 | 38 | 21 | 28 | 37 | 41 | 77 | 8 | 44 | | 491 | 1828 |
| - OTHER | 309.4341 & .4390 | 479 | 904 | 1233 | 1011 | 918 | 1567 | 1152 | 1261 | 1103 | 1477 | 930 | | 12035 | 13866 |
| GROUPED FILAMENTS | | | | | | | | | | | | | | | |
| NYLON | 309.3030 & .3200 | 3012 | 2523 | 2383 | 2409 | 2436 | 2723 | 2548 | 2867 | 2765 | 2939 | 3110 | | 29715 | 35626 |
| POLYESTER | 309.3040 & .3340 | 367 | 279 | 441 | 383 | 260 | 145 | 297 | 53 | 149 | 160 | 265 | | 2799 | 1929 |
| ACRYLIC | 309.3050 & .3350 | 861 | 1144 | 1073 | 1290 | 1015 | 1104 | 947 | 1234 | 896 | 1128 | 811 | | 11503 | 12433 |
| OTHER | 309.3065 & .3365 | 139 | 138 | 141 | 178 | 301 | 121 | 160 | 124 | 63 | 79 | 77 | | 1521 | 2409 |
| **SUBTOTAL ABOVE** | | **16757** | **15116** | **16994** | **14945** | **14757** | **16429** | **15451** | **18481** | **18438** | **16589** | **12398** | | **176358** | **168206** |
| WASTE, NOT ADVANCED | | | | | | | | | | | | | | | |
| - NYLON | 309.6625 | 2279 | 2182 | 3100 | 1454 | 2026 | 2732 | 2280 | 2160 | 2151 | 2042 | 2672 | | 25078 | 20359 |
| - POLYESTER | 309.6630 | 1077 | 823 | 1475 | 867 | 525 | 1035 | 377 | 688 | 321 | 828 | 695 | | 8711 | 5892 |
| - ACRYLIC | 309.6645 | 20 | 53 | 0 | 18 | 41 | 0 | 18 | 53 | 29 | 38 | 19 | | 289 | 328 |
| - OTHER | 309.6660 | 415 | 518 | 810 | 415 | 460 | 339 | 269 | 199 | 399 | 589 | 187 | | 4600 | 7934 |
| NOILS & GARNETTED FIBERS | 309.7000* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | | 62 | 164 |
| OTHER WASTE, ADVANCED | 309.7525 - .7555 | 42 | 153 | 67 | 638 | 1016 | 243 | 848 | 551 | 266 | 730 | 645 | | 5199 | 2626 |
| **SUBTOTAL ABOVE** | | **3833** | **3729** | **5452** | **3392** | **4068** | **4380** | **3792** | **3651** | **3197** | **4227** | **4218** | | **43939** | **37303** |
| TOTAL MAN-MADE ABOVE | | 33294 | 32864 | 36893 | 32264 | 29991 | 31156 | 30524 | 34980 | 34133 | 34007 | 28294 | | 358400 | 351796 |
| ***OTHER MAN-MADE FIBER TOPS, YARN & THREAD*** | | | | | | | | | | | | | | | |
| YARN - PLIED | | | | | | | | | | | | | | | |
| TEXTURED - CELLULOSIC | 310.1506 | 0 | 0 | + | 0 | 0 | 0 | 2 | 0 | 3 | 0 | + | | 5 | 1 |
| - NONCELLULOSIC | 310.1015 d & .1205 e | 142 | 337 | 528 | 392 | 440 | 487 | 299 | 322 | 381 | 220 | 205 | | 3753 | 9967 |
| OTHER - CELLULOSIC | 310.1030 & .1535 f | 8 | 85 | 77 | 43 | 19 | 72 | 12 | 72 | 16 | 23 | 91 | | 518 | 453 |
| - NONCELLULOSIC | 310.1050 & .1070 g | 336 | 339 | 306 | 285 | 157 | 214 | 252 | 266 | 289 | 269 | 282 | | 2995 | 4235 |
| SPUN YARN - CELLULOSIC | 310.4005 & .4030 h | 151 | 112 | 165 | 134 | 60 | 143 | 165 | 222 | 77 | 130 | 58 | | 1417 | 2250 |
| - OTHER | 310.4015 & .4027 i | 2574 | 3765 | 3067 | 3780 | 4318 | 3892 | 3561 | 2543 | 2389 | 2782 | 2216 | | 34887 | 41474 |
| OTHER YARNS - NES, INCL. CHENILLE | 310.6034 - .8000 | 1493 | 1673 | 1629 | 2004 | 1943 | 2792 | 2993 | 2628 | 2849 | 3397 | 2456 | | 25857 | 15255 |
| HANDWORK YARNS & SEWING THREAD | 310.9000 & .9310 j | 831 | 662 | 737 | 690 | 689 | 915 | 811 | 562 | 844 | 751 | 652 | | 8144 | 4346 |
| SLIVER, TOPS & ROVING | 309.9000 | 383 | 279 | 281 | 607 | 585 | 1021 | 594 | 260 | 716 | 410 | 236 | | 5372 | 3060 |
| TEXTILE GLASS FIBER | 309.2800 & .2900 k | 1431 | 1868 | 1653 | 2285 | 1279 | 2046 | 2459 | 4637 | 4240 | 2869 | 2458 | | 27225 | 22300 |
| GRAND TOTAL ABOVE | | 40643 | 41984 | 45336 | 42484 | 39481 | 42736 | 41672 | 46492 | 45937 | 44858 | 36948 | | 468573 | 455137 |

**SOURCE:** U.S. Census Bureau Report IM145X.

**NES** Not elsewhere specified.

\+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

# TABLE 12:
# U.S. EXPORTS OF MAN-MADE FIBERS
## THOUSAND POUNDS

| ITEM | COMMODITY NUMBER AS OF 1/1/87 | 1987 JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR TO DATE 1987 | 1986 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***CELLULOSIC FIBERS*** | | | | | | | | | | | | | | | |
| FILAMENT YARN [a] | | | | | | | | | | | | | | | |
| TEXTURED | 310.0004 | 43 | 100 | 101 | 24 | 17 | 12 | 36 | 28 | 135 | 22 | 53 | | 571 | 93 |
| OTHER [b] | 310.0026 | 475 | 365 | 639 | 468 | 654 | 306 | 503 | 372 | 260 | 335 | 388 | | 4765 | 6487 |
| MONOFILAMENTS | 309.0110 | 0 | 0 | 0 | 2 | 0 | + | 39 | 0 | 34 | 93 | 76 | | 244 | 223 |
| STRIPS | 309.2210 | 1 | 1 | 40 | 2 | 13 | 0 | 3 | 11 | 4 | 4 | 3 | | 82 | 14 |
| **SUBTOTAL ABOVE** | | 519 | 466 | 780 | 496 | 684 | 318 | 581 | 411 | 433 | 454 | 520 | | 5662 | 6817 |
| STAPLE+TOW-RAYON | 309.4222 | 3930 | 1732 | 3107 | 2705 | 2582 | 2700 | 4047 | 4355 | 4372 | 1799 | 790 | | 32119 | 29144 |
| STAPLE-ACETATE | 309.4219 | 33 | 112 | 156 | 112 | 215 | 164 | 144 | 96 | 159 | 121 | 290 | | 1602 | 1561 |
| **SUBTOTAL ABOVE** | | 3963 | 1844 | 3263 | 2817 | 2797 | 2864 | 4191 | 4451 | 4531 | 1920 | 1080 | | 33721 | 30705 |
| WASTE, ADVANCED&NOT ADVANCED | 309.7400 | 231 | 169 | 47 | 134 | 52 | 35 | 50 | 113 | 12 | 133 | 73 | | 1049 | 2087 |
| ***NONCELLULOSIC FIBERS*** | | | | | | | | | | | | | | | |
| YARN - SINGLES | | | | | | | | | | | | | | | |
| NYLON - TEXTURED | 310.0005 & .0007 | 2678 | 2441 | 2542 | 2077 | 2760 | 3503 | 2614 | 3644 | 3286 | 2496 | 3314 | | 31355 | 22280 |
| - HIGH TENACITY [c] | 310.0027 | 7294 | 6373 | 5419 | 6719 | 7072 | 5385 | 8394 | 8212 | 4926 | 7044 | 5594 | | 72432 | 68769 |
| - OTHER | 310.0029 | 636 | 684 | 605 | 753 | 883 | 1054 | 571 | 639 | 1020 | 851 | 709 | | 8405 | 9748 |
| POLYESTER - TEXTURED | 310.0010 | 2151 | 2949 | 3145 | 2473 | 2079 | 1983 | 1523 | 1752 | 1467 | 1772 | 2212 | | 23506 | 66683 |
| - HIGH TENACITY [c] | 310.0032 | 1691 | 1913 | 2308 | 1475 | 1806 | 2286 | 3231 | 2612 | 2259 | 1942 | 1822 | | 23345 | 20064 |
| - OTHER [d] | 310.0034 | 160 | 233 | 152 | 75 | 201 | 161 | 122 | 139 | 112 | 115 | 160 | | 1630 | 2327 |
| OTHER - TEXTURED | 310.0014 | 1053 | 1386 | 1502 | 1133 | 1406 | 1995 | 1520 | 1344 | 1405 | 1275 | 2168 | | 16187 | 20195 |
| - OLEFIN | 310.0040 | 74 | 35 | 53 | 55 | 16 | 72 | 18 | 157 | 88 | 69 | 80 | | 717 | 1672 |
| - OTHER | 310.0044 | 389 | 577 | 654 | 748 | 445 | 737 | 488 | 433 | 405 | 458 | 848 | | 6182 | 5815 |
| MONOFILAMENTS, ALL DENIERS | | | | | | | | | | | | | | | |
| NYLON | 309.0120 | 416 | 687 | 641 | 417 | 553 | 676 | 370 | 621 | 556 | 668 | 699 | | 6304 | 4805 |
| POLYESTER | 309.0140 | 322 | 523 | 524 | 587 | 1447 | 1142 | 954 | 1154 | 1429 | 1534 | 1774 | | 11390 | 5373 |
| OTHER | 309.0170 | 478 | 492 | 875 | 480 | 718 | 656 | 502 | 617 | 628 | 911 | 419 | | 6776 | 4199 |
| STRIPS | 309.2220 & .2270 | 259 | 424 | 470 | 342 | 537 | 360 | 203 | 375 | 346 | 664 | 369 | | 4349 | 3489 |
| **SUBTOTAL ABOVE** | | 17601 | 18717 | 18890 | 17334 | 19923 | 20010 | 20510 | 21699 | 17927 | 19799 | 20168 | | 212578 | 235419 |
| STAPLE - NYLON | 309.4240 | 2060 | 1757 | 2615 | 1445 | 2092 | 1258 | 1694 | 1315 | 1996 | 2238 | 2388 | | 20858 | 13704 |
| - POLYESTER | 309.4242 | 18819 | 17019 | 16575 | 14494 | 13960 | 15011 | 11006 | 13848 | 12834 | 13720 | 9565 | | 156851 | 96751 |
| - ACRYLIC | 309.4245 | 4792 | 3355 | 2531 | 2440 | 4482 | 5365 | 4746 | 4997 | 7953 | 10827 | 5603 | | 57091 | 52377 |
| - OLEFIN | 309.4246 | 1893 | 2016 | 2642 | 2075 | 1583 | 1203 | 1849 | 1701 | 2060 | 1332 | 1215 | | 19569 | 13803 |
| - OTHER | 309.4247 | 1004 | 3194 | 2027 | 2959 | 4586 | 7965 | 2919 | 1998 | 1925 | 2708 | 1981 | | 33266 | 16094 |
| GROUPED FILAMENTS | | | | | | | | | | | | | | | |
| NYLON | 309.3220 | 283 | 737 | 386 | 275 | 259 | 470 | 401 | 350 | 394 | 740 | 775 | | 5070 | 5055 |
| POLYESTER [d] | 309.3240 | 1941 | 1832 | 1578 | 2318 | 1728 | 1811 | 1233 | 1095 | 1939 | 1769 | 1374 | | 18618 | 18277 |
| ACRYLIC | 309.3250 & .3255 | 1653 | 2207 | 1805 | 1980 | 2329 | 1768 | 2395 | 2116 | 2415 | 2159 | 2275 | | 23102 | 20350 |
| **SUBTOTAL ABOVE** | | 32445 | 32117 | 30159 | 27986 | 31019 | 34851 | 26243 | 27420 | 31516 | 35493 | 25176 | | 334425 | 236411 |
| WASTE, ADVANCED&NOT ADVANCED | | | | | | | | | | | | | | | |
| - NYLON | 309.7620 | 1021 | 1143 | 1095 | 1164 | 1260 | 1066 | 225 | 892 | 641 | 843 | 1248 | | 10598 | 8461 |
| - POLYESTER | 309.7630 | 2830 | 4649 | 5303 | 5570 | 5293 | 4829 | 3927 | 4753 | 4135 | 5746 | 4865 | | 51900 | 54411 |
| - ACRYLIC | 309.7640 | 1086 | 1362 | 1545 | 432 | 428 | 701 | 456 | 681 | 664 | 631 | 660 | | 8646 | 6099 |
| - OTHER | 309.7660 | 2543 | 3090 | 5034 | 2174 | 2630 | 3380 | 1485 | 2039 | 3866 | 3100 | 3696 | | 33040 | 44251 |
| **SUBTOTAL ABOVE** | | 7480 | 10244 | 12977 | 9340 | 9614 | 9976 | 6093 | 8365 | 9306 | 10320 | 10469 | | 104184 | 113222 |
| **TOTAL MAN-MADE ABOVE** | | 62239 | 63557 | 66116 | 58107 | 64089 | 68054 | 57668 | 62459 | 63725 | 68119 | 57486 | | 691619 | 624661 |
| TEXTILE GLASS FIBER | 309.2700 & .9700 | 5992 | 6585 | 7160 | 7265 | 7967 | 7821 | 6250 | 7599 | 6180 | 7515 | 7134 | | 77468 | 55942 |
| **GRAND TOTAL ABOVE** | | 68231 | 70142 | 73276 | 65372 | 72056 | 75875 | 63918 | 70058 | 69905 | 75634 | 64620 | | 769087 | 680603 |

**SOURCE:** U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

## TABLE 13:
## SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

| ITEMS & COUNTRY | 1987 JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR TO DATE 1987 | 1986 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***CELLULOSIC YARN, MONOFIL & STRIPS*** | | | | | | | | | | | | | | |
| AUSTRIA | 0 | 138 | 0 | 43 | 42 | 21 | 0 | 0 | 0 | 0 | 0 | | 244 | 30 |
| BRAZIL | 86 | 29 | 0 | 28 | 54 | 88 | 29 | 44 | 64 | 134 | 28 | | 584 | 278 |
| CANADA | 425 | 368 | 175 | 323 | 285 | 70 | 137 | 180 | 248 | 301 | 307 | | 2819 | 4529 |
| GERMANY, FED. REP. | 442 | 229 | 561 | 363 | 332 | 352 | 370 | 499 | 426 | 588 | 329 | | 4491 | 4792 |
| JAPAN | 209 | 10 | 39 | 39 | 6 | 38 | 66 | 16 | 63 | 94 | 0 | | 580 | 385 |
| MEXICO | 3 | 15 | 10 | 102 | 28 | 18 | 58 | 111 | 104 | 44 | 99 | | 592 | 705 |
| NETHERLANDS | 101 | 43 | 105 | 147 | 38 | 40 | 42 | 176 | 63 | 127 | 151 | | 1033 | 2400 |
| ALL OTHER COUNTRIES [a] | 1 | 3 | 1 | 0 | | 27 | 14 | 80 | 30 | 55 | 103 | | 315 | 1515 |
| TOTAL CELLULOSIC YARN | 1267 | 835 | 891 | 1045 | 786 | 654 | 716 | 1106 | 998 | 1343 | 1017 | | 10658 | 14634 |
| ***CELLULOSIC STAPLE+TOW*** | | | | | | | | | | | | | | |
| CANADA | 749 | 1188 | 1356 | 1230 | 841 | 1185 | 420 | 1115 | 885 | 687 | 944 | | 10600 | 11891 |
| ITALY | 88 | 0 | 59 | 51 | 61 | 35 | 78 | 149 | 66 | 36 | 101 | | 724 | 455 |
| JAPAN | 59 | 168 | 168 | 18 | 98 | 61 | 59 | 60 | 94 | 99 | 78 | | 962 | 947 |
| SWEDEN | 43 | 0 | 0 | 48 | 89 | 39 | 0 | 0 | 0 | 110 | 0 | | 329 | 491 |
| UNITED KINGDOM | 46 | 5 | 73 | 24 | 0 | 41 | 42 | 27 | 41 | 22 | 3 | | 324 | 626 |
| ALL OTHER COUNTRIES [b] | 0 | 63 | 4 | 7 | 0 | 36 | 5 | 0 | 0 | 11 | + | | 126 | 2086 |
| TOTAL CELLULOSIC STAPLE+TOW | 985 | 1424 | 1660 | 1378 | 1089 | 1397 | 604 | 1351 | 1086 | 965 | 1126 | | 13065 | 16496 |
| ***NONCELLULOSIC YARN, MONOFIL & STRIPS*** | | | | | | | | | | | | | | |
| BELGIUM | 1408 | 1377 | 559 | 560 | 653 | 849 | 671 | 2122 | 893 | 1220 | 1001 | | 11313 | 12590 |
| CANADA | 890 | 1976 | 1613 | 1605 | 1802 | 1214 | 1426 | 1726 | 1624 | 1210 | 1313 | | 16399 | 15409 |
| CHINA, PRC | 0 | 0 | 94 | 0 | 267 | 30 | 0 | 0 | 0 | 0 | 0 | | 391 | 60 |
| COSTA RICA | 729 | 515 | 642 | 589 | 590 | 564 | 585 | 489 | 510 | 475 | 557 | | 6245 | 6065 |
| DENMARK | 31 | 62 | 0 | 0 | 32 | 30 | 30 | 0 | 30 | 0 | 0 | | 215 | 183 |
| FRANCE | 686 | 685 | 659 | 648 | 306 | 678 | 331 | 91 | 72 | 550 | 717 | | 5423 | 7374 |
| GERMANY, FED. REP. | 1744 | 2397 | 2421 | 2740 | 1373 | 1347 | 2176 | 2052 | 1900 | 1851 | 1654 | | 21655 | 20317 |
| IRELAND | 81 | 58 | 0 | 0 | 106 | 79 | 54 | 0 | 35 | 34 | 1 | | 448 | 447 |
| ISRAEL | 162 | 233 | 90 | 249 | 321 | 97 | 165 | 300 | 228 | 296 | 310 | | 2451 | 3012 |
| ITALY | 1202 | 866 | 1292 | 1254 | 940 | 985 | 1020 | 394 | 1748 | 1446 | 875 | | 12022 | 11664 |
| JAPAN | 992 | 570 | 670 | 661 | 525 | 548 | 523 | 691 | 492 | 408 | 531 | | 6611 | 7521 |
| KOREA, REP. OF | 41 | 21 | 22 | 20 | 60 | 25 | 25 | 25 | 72 | 46 | 46 | | 403 | 288 |
| MEXICO | 1167 | 2037 | 2527 | 1939 | 1660 | 871 | 1829 | 1268 | 1757 | 2087 | 1605 | | 18747 | 12896 |
| NETHERLANDS | 93 | 184 | 151 | 99 | 61 | 62 | 154 | 90 | 83 | 62 | + | | 1039 | 1283 |
| SINGAPORE | 73 | 0 | 66 | 44 | 21 | 23 | 49 | 55 | 0 | 66 | 33 | | 430 | 139 |
| SWITZERLAND | 253 | 2 | 64 | 2 | 9 | 1 | 15 | + | 2 | 44 | 39 | | 431 | 454 |
| TAIWAN | 14 | 39 | 63 | 46 | 34 | 116 | 104 | 89 | 106 | 57 | 32 | | 700 | 878 |
| UNITED KINGDOM | 735 | 596 | 844 | 894 | 483 | 670 | 610 | 773 | 821 | 762 | 650 | | 7838 | 6867 |
| ALL OTHER COUNTRIES [c] | 151 | 142 | 119 | 144 | 48 | 86 | 194 | 226 | 41 | 269 | 141 | | 1561 | 7589 |
| TOTAL NONCELLULOSIC YARN | 10452 | 11760 | 11896 | 11494 | 9291 | 8275 | 9961 | 10391 | 10414 | 10883 | 9505 | | 114322 | 115036 |
| ***NONCELLULOSIC STAPLE+TOW*** | | | | | | | | | | | | | | |
| AUSTRIA | 61 | 18 | 130 | 177 | 38 | 312 | 274 | 287 | 240 | 353 | 285 | | 2175 | 390 |
| BELGIUM | 21 | 36 | 18 | 18 | 53 | 1 | + | 17 | 0 | 15 | + | | 179 | 468 |
| BRAZIL | 0 | 438 | 236 | 379 | 262 | 297 | 0 | 61 | 0 | 0 | 0 | | 1673 | 608 |
| CANADA | 3125 | 3071 | 3201 | 2248 | 2236 | 2507 | 2725 | 1771 | 2893 | 2263 | 1748 | | 27788 | 22529 |
| FRANCE | 955 | 588 | 532 | 585 | 520 | 1193 | 279 | 766 | 639 | 469 | 764 | | 7290 | 9395 |
| GERMANY, FED. REP. | 2586 | 2359 | 2194 | 2463 | 1766 | 1951 | 2805 | 3147 | 4935 | 3892 | 1964 | | 30062 | 27942 |
| IRELAND | 109 | 0 | 0 | 0 | 0 | 344 | 91 | 122 | 394 | 403 | 116 | | 1579 | 498 |
| ISRAEL | 62 | 0 | 31 | 0 | 291 | 36 | 0 | 36 | 1 | 0 | 0 | | 457 | 464 |
| ITALY | 2265 | 1688 | 2200 | 980 | 344 | 1183 | 100 | 853 | 1304 | 1220 | 317 | | 12454 | 20138 |
| JAPAN | 1849 | 1582 | 2230 | 2472 | 1577 | 2390 | 1698 | 2317 | 1574 | 2185 | 1218 | | 21092 | 21093 |
| KOREA, REP. OF | 935 | 947 | 655 | 614 | 1247 | 956 | 1106 | 1254 | 819 | 1053 | 898 | | 10484 | 4718 |
| MALAYSIA | 48 | 95 | 0 | 95 | 87 | 95 | 0 | 48 | 48 | 0 | 48 | | 564 | 191 |
| MEXICO | 1586 | 1232 | 1784 | 824 | 2080 | 1303 | 3161 | 3339 | 2043 | 1279 | 1149 | | 19780 | 14202 |
| ROMANIA | 372 | 58 | 590 | 88 | 516 | 749 | 339 | 615 | 271 | 303 | 159 | | 4060 | 2513 |
| SWITZERLAND | 71 | 152 | 198 | 89 | 17 | 70 | 66 | 34 | 96 | 85 | 138 | | 1016 | 717 |
| TAIWAN | 1911 | 1559 | 1338 | 2580 | 1985 | 2003 | 1774 | 2390 | 2019 | 1521 | 2132 | | 21212 | 18541 |
| UNITED KINGDOM | 777 | 1280 | 1522 | 1264 | 1635 | 1032 | 953 | 1339 | 687 | 1474 | 1376 | | 13339 | 20791 |
| ALL OTHER COUNTRIES [d] | 24 | 13 | 135 | 72 | 103 | 7 | 80 | 85 | 475 | 74 | 86 | | 1154 | 3008 |
| TOTAL NONCELLULOSIC STAPLE+TOW | 16757 | 15116 | 16994 | 14948 | 14757 | 16429 | 15451 | 18481 | 18438 | 16589 | 12398 | | 176358 | 168206 |

\+ Less than 1 thousand pounds.

a. Korea, Rep. of 104, Italy 79, Taiwan 50, Hong Kong 39, France 20, Singapore 15, Australia 5, United Kingdom 2, Belgium 1.

b. Austria 76, Germany, Fed. Rep. 23, Mexico 9, France 8, Venezuela 4, Finland 3, Brazil 2, Belgium 1.

c. Spain 302, Romania 166, Australia 136, Chile 136, Argentina 125, Turkey 124, New Zealand 110, South Africa 88, Sweden 72, Austria 55, Iran 39, Morocco 33, Norway 32, Philippines 27, Brazil 19, Thailand 16, Greece 12, Bangladesh 6, Guatemala 1, Iceland 1, El Salvador, Hong Kong.

d. Spain 425, Australia 262, Denmark 138, Hong Kong 106, Costa Rica 91, Turkey 39, Finland 38, China, PRC 28, Netherlands 16, Egypt 7, Portugal 2, India 1, Sweden 1, N. Antil., Philippines.

# TABLE 14:
# SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

| ITEM | 1987 JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR TO DATE[a] 1987 | 1986 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MAN-MADE FIBER TOTAL SHIPMENTS[b,c]** | | | | | | | | | | | | | | |
| ***CELLULOSIC*** | | | | | | | | | | | | | | |
| YARN | 14.6 | 13.7 | 15.9 | 16.5 | 16.1 | 16.9 | 14.6 | 14.8 | 16.9 | 17.1 | 15.7 | 18.9 | 191.7 | 212.3 |
| RAYON STAPLE | 34.1 | 29.7 | 36.1 | 33.2 | 31.6 | 34.4 | 33.6 | 37.0 | 39.9 | 36.5 | 32.8 | 36.6 | 415.5 | 403.8 |
| **TOTAL CELLULOSIC** | 48.7 | 43.4 | 52.0 | 49.7 | 47.7 | 51.3 | 48.2 | 51.8 | 56.8 | 53.6 | 48.5 | 55.5 | 607.2 | 616.1 |
| ***NONCELLULOSIC*** | | | | | | | | | | | | | | |
| **YARN+MONOFILAMENTS** | | | | | | | | | | | | | | |
| NYLON - INDUSTRIAL[e] | 31.0 | 32.8 | 30.6 | 29.5 | 35.7 | 30.0 | 30.6 | 31.2 | 29.6 | 31.7 | 30.3 | 30.4 | 373.4 | 333.4 |
| - CARPET | 75.1 | 77.6 | 79.9 | 76.9 | 86.2 | 78.5 | 80.4 | 82.5 | 89.1 | 78.1 | 65.3 | 71.0 | 940.6 | 898.5 |
| - TEXTILE[g] | 30.5 | 30.4 | 33.5 | 32.1 | 32.4 | 31.4 | 31.1 | 31.5 | 33.5 | 30.1 | 31.2 | 31.0 | 378.7 | 360.5 |
| POLYESTER - INDUSTRIAL[e] | 26.6 | 27.6 | 29.4 | 27.7 | 28.0 | 26.9 | 26.1 | 29.6 | 30.7 | 30.3 | 27.1 | 28.8 | 338.8 | 313.9 |
| - TEXTILE[g] | 63.3 | 64.0 | 72.3 | 75.7 | 73.6 | 71.7 | 72.3 | 65.9 | 72.0 | 70.9 | 72.4 | 67.5 | 841.6 | 855.8 |
| OLEFIN[f] | 92.3 | 87.6 | 84.3 | 88.9 | 91.4 | 103.2 | 83.2 | 99.1 | 107.0 | 95.8 | 94.7 | 100.2 | 1127.7 | 1059.7 |
| **TOTAL YARN** | 318.8 | 320.0 | 330.0 | 330.8 | 347.3 | 341.7 | 323.7 | 339.8 | 361.9 | 336.9 | 321.0 | 328.9 | 4000.8 | 3821.8 |
| **STAPLE+TOW+FIBERFILL** | | | | | | | | | | | | | | |
| NYLON | 84.1 | 81.2 | 86.2 | 88.7 | 91.1 | 78.4 | 81.6 | 84.2 | 84.1 | 88.4 | 71.4 | 66.1 | 985.5 | 908.2 |
| ACRYLIC+MODACRYLIC | 49.2 | 50.7 | 54.2 | 51.2 | 52.3 | 45.1 | 47.5 | 50.0 | 47.3 | 51.4 | 43.5 | 51.0 | 593.4 | 614.1 |
| POLYESTER | 184.8 | 192.2 | 205.6 | 195.1 | 193.4 | 208.4 | 181.6 | 186.5 | 207.7 | 205.3 | 199.4 | 209.2 | 2369.2 | 2123.4 |
| OLEFIN+VINYON[d] | 28.2 | 27.9 | 31.9 | 31.1 | 30.0 | 30.3 | 26.9 | 32.0 | 32.6 | 31.3 | 30.8 | 29.9 | 362.9 | 331.5 |
| **TOTAL STAPLE** | 346.3 | 352.0 | 377.9 | 366.1 | 366.8 | 362.2 | 337.6 | 352.7 | 371.7 | 376.4 | 345.1 | 356.2 | 4311.0 | 3977.2 |
| **TOTAL NONCELLULOSIC** | 665.1 | 672.0 | 707.9 | 696.9 | 714.1 | 703.9 | 661.3 | 692.5 | 733.6 | 713.3 | 666.1 | 685.1 | 8311.8 | 7799.0 |
| **TOTAL MAN-MADE FIBER** | 713.8 | 715.4 | 759.9 | 746.6 | 761.8 | 755.2 | 709.5 | 744.3 | 790.4 | 766.9 | 714.6 | 740.6 | 8919.0 | 8415.1 |
| **MAN-MADE FIBER END-OF-MONTH STOCK** | | | | | | | | | | | | | | |
| ***CELLULOSIC*** | | | | | | | | | | | | | | |
| YARN | 17.9 | 18.2 | 16.8 | 15.2 | 14.7 | 14.0 | 14.0 | 13.3 | 12.9 | 12.0 | 11.6 | 14.2 | 14.2 | 14.8 |
| RAYON STAPLE | 24.3 | 26.1 | 23.8 | 24.7 | 25.9 | 25.1 | 25.0 | 21.2 | 18.2 | 16.3 | 18.2 | 20.7 | 20.7 | 22.4 |
| **TOTAL CELLULOSIC** | 42.2 | 44.3 | 40.6 | 39.9 | 40.6 | 39.1 | 39.0 | 34.5 | 31.1 | 28.3 | 29.8 | 34.9 | 34.9 | 37.2 |
| ***NONCELLULOSIC*** | | | | | | | | | | | | | | |
| **YARN+MONOFILAMENTS** | | | | | | | | | | | | | | |
| NYLON - INDUSTRIAL[e] | 29.2 | 24.9 | 26.7 | 29.0 | 27.0 | 25.8 | 26.5 | 24.9 | 22.8 | 22.2 | 21.8 | 20.9 | 20.9 | 30.8 |
| - CARPET | 56.6 | 55.5 | 52.3 | 52.4 | 48.3 | 47.7 | 52.7 | 49.3 | 45.2 | 47.6 | 60.4 | 65.4 | 65.4 | 54.7 |
| - TEXTILE[g] | 49.6 | 49.4 | 46.5 | 47.2 | 47.6 | 46.8 | 48.6 | 47.0 | 45.7 | 46.4 | 48.3 | 49.9 | 49.9 | 47.3 |
| POLYESTER - INDUSTRIAL[e] | 30.6 | 30.0 | 27.8 | 29.0 | 28.5 | 29.4 | 31.6 | 28.1 | 25.2 | 23.5 | 24.5 | 27.8 | 27.8 | 29.4 |
| - TEXTILE[g] | 85.6 | 88.8 | 87.6 | 83.2 | 80.0 | 85.7 | 85.6 | 85.0 | 87.2 | 86.0 | 82.5 | 81.5 | 81.5 | 81.5 |
| OLEFIN[f] | 54.7 | 55.6 | 54.5 | 56.3 | 56.0 | 54.9 | 57.0 | 55.7 | 53.0 | 54.1 | 56.7 | 52.9 | 52.9 | 62.9 |
| **TOTAL YARN** | 306.3 | 304.2 | 295.4 | 297.1 | 287.4 | 290.3 | 302.0 | 290.0 | 279.1 | 279.8 | 294.2 | 298.4 | 298.4 | 306.6 |
| **STAPLE+TOW+FIBERFILL** | | | | | | | | | | | | | | |
| NYLON | 59.3 | 53.8 | 58.7 | 57.7 | 56.4 | 61.5 | 66.9 | 61.6 | 64.4 | 61.7 | 68.9 | 69.7 | 69.7 | 62.8 |
| ACRYLIC+MODACRYLIC | 68.2 | 67.9 | 67.8 | 70.1 | 71.6 | 78.2 | 73.9 | 70.0 | 68.7 | 63.8 | 66.6 | 63.3 | 63.3 | 66.2 |
| POLYESTER | 178.0 | 169.8 | 162.3 | 162.4 | 171.7 | 161.6 | 182.1 | 180.6 | 164.2 | 166.5 | 163.7 | 156.5 | 156.5 | 163.9 |
| OLEFIN+VINYON[d] | 33.3 | 32.6 | 31.0 | 30.3 | 30.8 | 31.9 | 34.5 | 32.9 | 32.5 | 32.6 | 32.5 | 30.1 | 30.1 | 33.5 |
| **TOTAL STAPLE** | 338.8 | 324.1 | 319.8 | 320.5 | 330.5 | 333.2 | 357.4 | 345.1 | 329.8 | 324.6 | 331.7 | 319.6 | 319.6 | 326.4 |
| **TOTAL NONCELLULOSIC** | 645.1 | 628.3 | 615.2 | 617.6 | 617.9 | 623.5 | 659.4 | 635.1 | 608.9 | 604.4 | 625.9 | 618.0 | 618.0 | 633.0 |
| **TOTAL MAN-MADE FIBER** | 687.3 | 672.6 | 655.8 | 657.5 | 658.5 | 662.6 | 698.4 | 669.6 | 640.0 | 632.7 | 655.7 | 652.9 | 652.9 | 670.2 |
| **WOOL & COTTON CONSUMPTION** | | | | | | | | | | | | | | |
| APPAREL CLASS WOOL | 13.8 | 13.1 | 15.0 | 13.8 | 13.4 | 13.8 | 10.6 | 10.8 | 13.6 | 12.5 | | | 130.4 | 128.6 |
| CARPET CLASS WOOL | 0.8 | 0.8 | 1.2 | 1.3 | 1.3 | 0.8 | 1.2 | 1.4 | 1.2 | 1.5 | | | 11.5 | 8.6 |
| TOTAL RAW WOOL | 14.6 | 13.9 | 16.2 | 15.1 | 14.7 | 14.6 | 11.8 | 12.2 | 14.8 | 14.0 | | | 141.9 | 137.2 |
| RAW COTTON | 302.3 | 281.8 | 341.4 | 301.8 | 308.4 | 328.2 | 261.6 | 293.4 | 394.1 | 329.6 | | | 3142.6 | 2694.1 |

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. 1987 data exclude Vinyon.
e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
g. Includes low denier industrial yarn.

# DATA POWER

There's only one official source for man-made fiber data in the United States. That's **The Man-Made Fiber Producers' Handbook.**

***How can we make that claim?*** It's easy. Because no other publication provides industry data compiled from confidential reports submitted by the fiber producers themselves. All the data you need when you need them.

***Scope:*** Capacity, inventory, import, export, end-use and domestic shipment data are provided by fiber type and are updated monthly, quarterly and annually. This is **Data Power . . .** complete coverage of a key U.S. industry.

***Timeliness:*** Monthly results are made available the tenth of each month and quarterly results six weeks after the close of a quarter. The monthly data, in addition, may be obtained from our special phone system at no extra charge.

**The Man-Made Fiber Producers' Handbook . . .** the complete official source for the man-made fiber industry. Examine the listing below and you'll see what we mean by **Data Power.**

## Features Yarn+Monofilament and Staple+Tow Data for:

- Rayon Staple
- Cellulosic Yarn
- Nylon
- Polyester
- Acrylic+Modacrylic
- Olefin

With Additional Data for:
- Textile Glass
- Olefin Yarn, Monofilament & Film Fiber
- Civil Engineering Fabric

## Covering All Noncellulosic and Cellulosic Fibers:

**Monthly**
- Production
- Domestic Shipments
- Exports
- Inventories
- Industrial Yarn
- Carpet Yarn
- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

**Quarterly**
- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

**Semiannually & Annually**
- Capacities
- Primary End Use Summaries
- Secondary End Use Summaries
- Waste Shipment Summaries
- Imports
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